



MILLING CUTTER

Application Index A 190

Face Milling Cutter A 192

Ball Endmill A 230

Chamfer Cutter A 232

Aluminum Cutter A 235

Special Tools A 244



APPLICATION INDEX

SFKN .. 88



PAGE 192

SFKN .. 75



PAGE 194

SFKN .. 45



PAGE 196

SFKP .. 88



PAGE 198

SFKP .. 75



PAGE 200

SFKP .. 45



PAGE 202

SFAN .. 88



PAGE 204

SFAN .. 75



PAGE 206

SFSX .. 00 .. EC



PAGE 208

SFSX .. 70 .. EC



PAGE 210

SFSP .. OT



PAGE 212

SFKN .. HX



PAGE 214

SFKP .. MF



PAGE 216

SFMS .. LRF



PAGE 218

SFCN .. 00 .. R



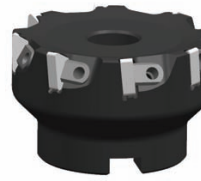
PAGE 220

SFCP .. 00 .. R



PAGE 222

SFKN .. 90



PAGE 228

CSC



PAGE 232

HPA-M



PAGE 237

QCB-H



PAGE 242

SFXN



PAGE 224

SECP



PAGE 229

HPA-I



PAGE 235

ARBOR



PAGE 238

SFXP



PAGE 226

SEXP



PAGE 230

HPA-H



PAGE 236

QCB-I



PAGE 241

CERAMIC

CERMET

PCBN
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PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

PCBN
/
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TOOL
HOLDER

MILLING
CUTTER

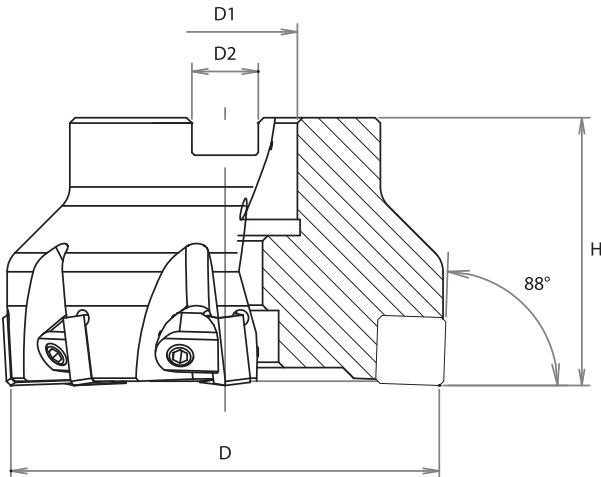
FACE MILLING CUTTER

SFKN .. 88



Axial rake angle : -7°

Radial rake angle
D40 : -12°
D50~125 : -10°



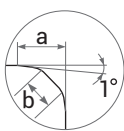
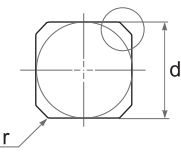
Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFKN 040-04-88 N4	40	16	8.4	40	4	SNCN 0904 ZZT
SFKN 050-05-88 N4	50	22	10.4	40	5	
SFKN 063-06-88 N4	63	22	10.4	40	6	SNCN 1204 ZZT SNCN 1204 ZN
SFKN 080-08-88 N4A	80	25.4	9.5	50	8	
SFKN 080-08-88 N4	80	27	12.4	50	8	
SFKN 100-10-88 N4A	100	31.75	12.7	50	10	
SFKN 100-10-88 N4	100	32	14.4	50	10	
SFKN 125-12-88 N4A	125	38.1	15.9	63	12	
SFKN 125-12-88 N4	125	40	16.4	63	12	

Dimensions (mm)	Spare parts		
	Wedge	Wedge Screw	Wrench
40 - 50	SSW9	WS6 (M6)	LW3
63 - 125	SSW10	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

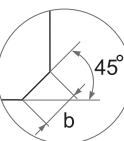
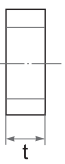
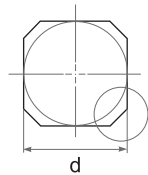
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

SNCN .. ZZT



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a	b																			
SNCN 0904 ZZT	SNCN 33 ZZT	9.52	4.76	1.30	1.10												●	●		●	●			
SNCN 1204 ZZT	SNCN 43 ZZT	12.70	4.76	3.25	1.10												●	●		●	●			

SNCN .. ZN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	b																				
SNCN 1204 ZN	SNCN 43 ZN	12.70	4.76	1.10													●							

CERAMIC

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TOOL
HOLDER

MILLING
CUTTER

CERAMIC

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HOLDER

MILLING
CUTTER

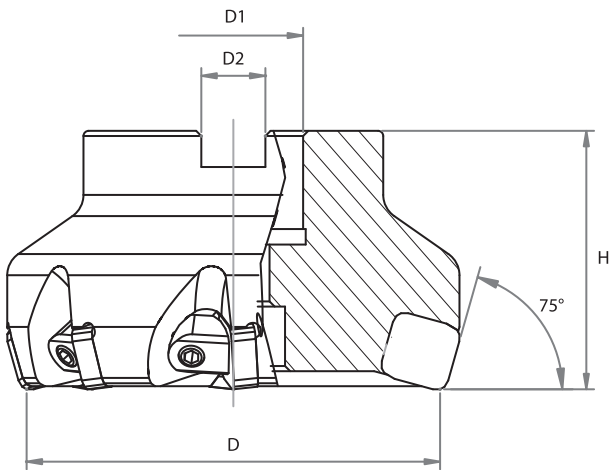
FACE MILLING CUTTER

SFKN .. 75



Axial rake angle : -6°

Radial rake angle : -10°



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFKN 050-05-75 N4	50	22	10.4	40	5	SNCN 1204 ENTN SNGN 1204□
SFKN 063-06-75 N4	63	22	10.4	40	6	
SFKN 080-08-75 N4A	80	25.4	9.5	50	8	
SFKN 080-08-75 N4	80	27	12.4	50	8	
SFKN 100-10-75 N4A	100	31.75	12.7	50	10	
SFKN 100-10-75 N4	100	32	14.4	50	10	
SFKN 125-12-75 N4A	125	38.1	15.9	63	12	
SFKN 125-12-75 N4	125	40	16.4	63	12	

CERAMIC

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TOOL
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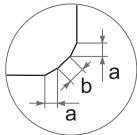
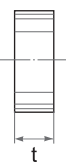
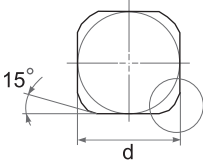
MILLING
CUTTER

Dimensions (mm) D	Spare parts		
	Wedge	Wedge Screw	Wrench
50	SSW10	WS6 (M6)	LW3
63 - 125	SSW10	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

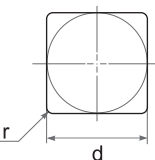
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.10~0.20	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.10~0.20	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.10~0.20	2.0~5.0	6.3~12.5

SNCN .. ENTN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a	b																			
SNCN 1204 ENTN	SNCN 43 ENTN	12.70	4.76	1.40	1.00																			

SNGN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																				
SNGN 120412	SNGN 433	12.70	4.76	1.2																				
SNGN 120416	SNGN 434	12.70	4.76	1.6																				

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MILLING
CUTTER

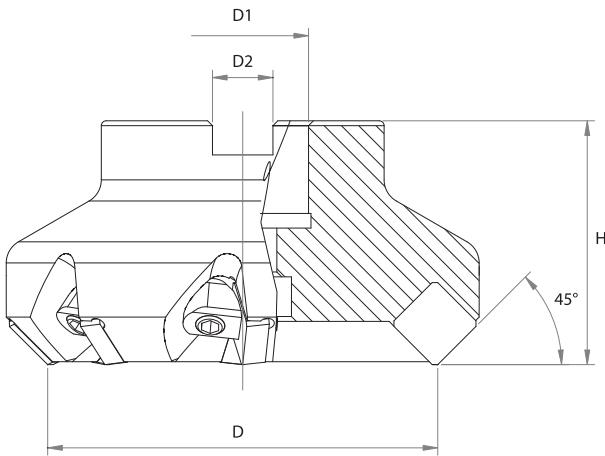
FACE MILLING CUTTER

SFKN .. 45



Axial rake angle : -6°

Radial rake angle : -12°



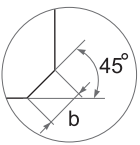
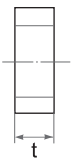
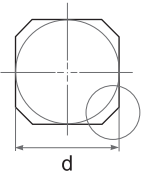
Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFKN 050-05-45 N4	50	22	10.4	40	5	SNCN 1204 AN SNCN 1204 ZN SNGN 1204 □□
SFKN 063-06-45 N4	63	22	10.4	40	6	
SFKN 080-08-45 N4A	80	25.4	9.5	50	8	
SFKN 080-08-45 N4	80	27	12.4	50	8	
SFKN 100-10-45 N4A	100	31.75	12.7	50	10	
SFKN 100-10-45 N4	100	32	14.4	50	10	
SFKN 125-12-45 N4A	125	38.1	15.9	63	12	
SFKN 125-12-45 N4	125	40	16.4	63	12	

Dimensions (mm)	Spare parts		
	Wedge	Wedge Screw	Wrench
50	SSW9	WS6 (M6)	LW3
63 - 125	SSW10	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

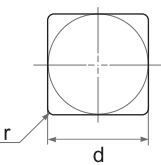
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190 ~210	800 ~2,000	0.15 ~0.30	2.0 ~5.0	3.2 ~12.5
Roughing	220 ~240	500 ~1,500	0.15 ~0.30	2.0 ~5.0	3.2 ~12.5
Roughing	250 ~280	300 ~1,200	0.15 ~0.30	2.0 ~5.0	3.2 ~12.5

SNCN



Type		Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	b																			
SNCN 1204 AN	SNCN 43 AN	12.70	4.76	2.50												●							
SNCN 1204 ZN	SNCN 43 ZN	12.70	4.76	1.10												●							

SNGN



Type		Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																			
SNGN 120412	SNGN 433	12.70	4.76	1.2												●							
SNGN 120416	SNGN 434	12.70	4.76	1.6												●							

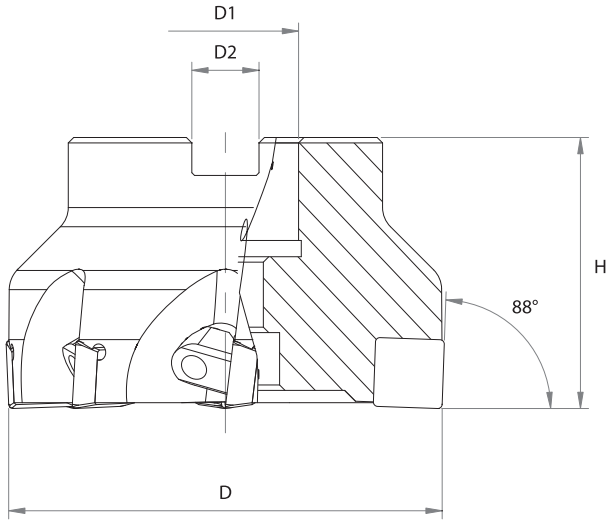
FACE MILLING CUTTER

SFKP .. 88



Axial rake angle : +7°

Radial rake angle : +3°



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFKP 050-05-88 N4	50	22	10.4	40	5	SDCN 1204 □□ T20
SFKP 063-06-88 N4	63	22	10.4	40	6	
SFKP 080-08-88 N4A	80	25.4	9.5	50	8	
SFKP 080-08-88 N4	80	27	12.4	50	8	
SFKP 100-10-88 N4A	100	31.75	12.7	50	10	
SFKP 100-10-88 N4	100	32	14.4	50	10	
SFKP 125-12-88 N4A	125	38.1	15.9	63	12	
SFKP 125-12-88 N4	125	40	16.4	63	12	

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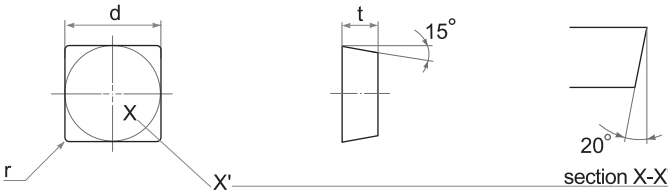
MILLING
CUTTER

Dimensions (mm) D	Spare parts		
	Wedge	Wedge Screw	Wrench
50	SSW9	WS6 (M6)	LW3
63 - 125	SSW10	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

SDCN .. T



Type		Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																			
SDCN 120408 T20	SDCN 432 T20	12.70	4.76	0.8												●							
SDCN 120412 T20	SDCN 433 T20	12.70	4.76	1.2												●							

CERAMIC

CERMET

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TOOL
HOLDER

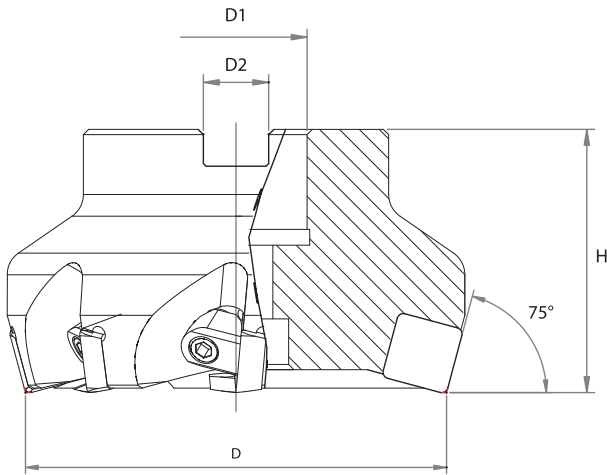
MILLING
CUTTER

FACE MILLING CUTTER

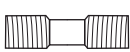
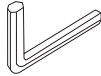
SFKP .. 75



Axial rake angle : +5°
Radial rake angle : 0°



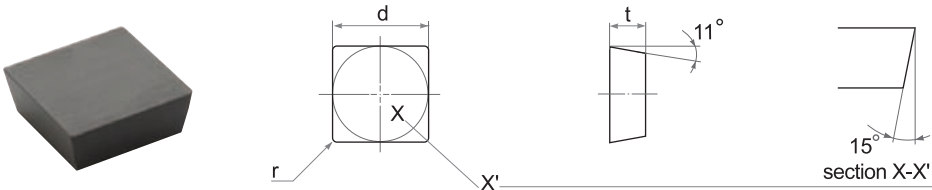
Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFKP 050-05-75 N4	50	22	10.4	40	5	SPCN 1204  T15 SPKN 1204SP EDTR
SFKP 063-06-75 N4	63	22	10.4	40	6	
SFKP 080-08-75 N4A	80	25.4	9.5	50	8	
SFKP 080-08-75 N4	80	27	12.4	50	8	
SFKP 100-10-75 N4A	100	31.75	12.7	50	10	
SFKP 100-10-75 N4	100	32	14.4	50	10	
SFKP 125-12-75 N4A	125	38.1	15.9	63	12	
SFKP 125-12-75 N4	125	40	16.4	63	12	

Dimensions (mm)		Spare parts		
D		Wedge	Wedge Screw	Wrench
				
50		SSW9	WS6 (M6)	LW3
63 - 125		SSW10	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

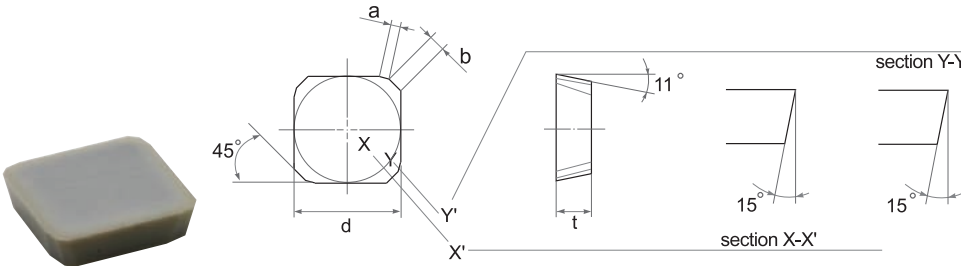
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.10~0.20	2.0~5.0	3.2~12.5
Roughing	220~240	500~1,500	0.10~0.20	2.0~5.0	3.2~12.5
Roughing	250~280	300~1,200	0.10~0.20	2.0~5.0	3.2~12.5

SPCN .. T



Type		Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																			
SPCN 120412 T15	SPCN 433 T15	12.70	4.76	1.2												●							
SPCN 120416 T15	SPCN 434 T15	12.70	4.76	1.6												●							

SPKN .. SP



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a	b																			
SPKN 1204SP EDTR	SPKN 43SP EDTR	12.70	4.76	1.10	1.30												●							

CERAMIC

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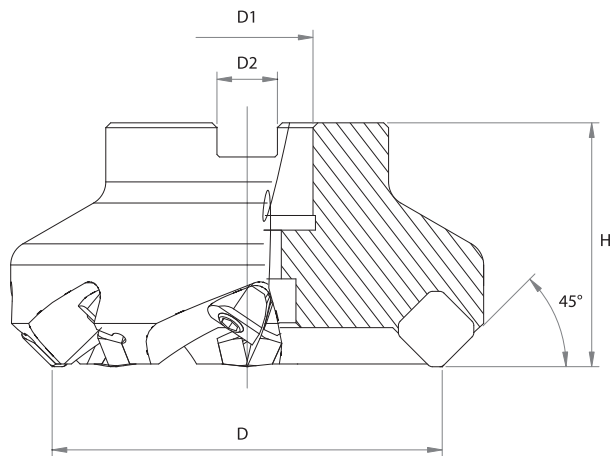
MILLING
CUTTER

FACE MILLING CUTTER

SFKP .. 45



Axial rake angle : +19°
Radial rake angle : -6°



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFKP 050-05-45 N4	50	22	10.4	40	5	SEAN 1204 AFTN W25 SEAN 1204□□T25
SFKP 063-06-45 N4	63	22	10.4	40	6	
SFKP 080-08-45 N4A	80	25.4	9.5	50	8	
SFKP 080-08-45 N4	80	27	12.4	50	8	
SFKP 100-10-45 N4A	100	31.75	12.7	50	10	
SFKP 100-10-45 N4	100	32	14.4	50	10	
SFKP 050-05-45 N3	50	22	10.4	40	5	SEAN 1203 NWAFTN SEAN 1203 AFTN
SFKP 063-06-45 N3	63	22	10.4	40	6	
SFKP 080-08-45 N3A	80	25.4	9.5	50	8	
SFKP 080-08-45 N3	80	27	12.4	50	8	
SFKP 100-10-45 N3A	100	31.75	12.7	50	10	
SFKP 100-10-45 N3	100	32	14.4	50	10	

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

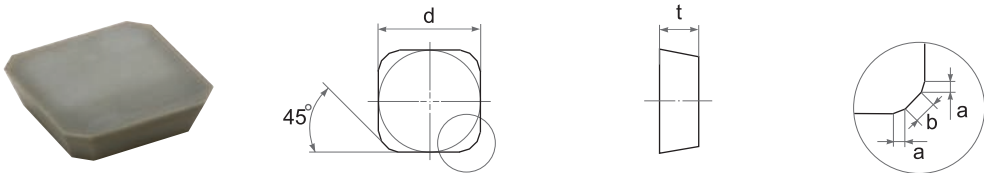
MILLING
CUTTER

Dimensions (mm)	Spare parts		
D	Wedge	Wedge Screw	Wrench
50	SSW9	WS6 (M6)	LW3
63 - 100	SSW10	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

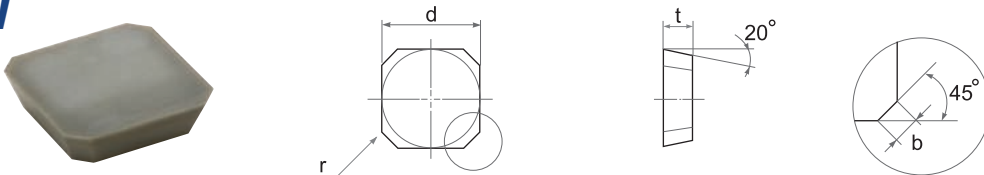
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.15~0.30	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.15~0.30	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.15~0.30	2.0~5.0	6.3~12.5

SEAN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a	b																			
SEAN 1203 AFTN	SEAN 42 AFTN	12.70	3.18	0.50	1.80																			

SEAN .. NW



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	b	r																			
SEAN 1203 NWAFTN	SEAN 42 NWAFTN	12.70	3.18	2.40	0.4																			
SEAN 1204 AFTNW25	SEAN 43 AFTNW25	12.70	4.76	2.50	1.2																			

CERAMIC

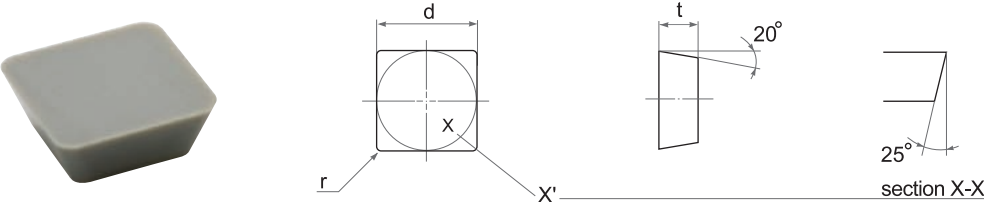
CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

SEAN .. T



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a																				
SEAN 120412 T25	SEAN 433 T25	12.70	4.76	1.2																				
SEAN 120416 T25	SEAN 434 T25	12.70	4.76	1.6																				

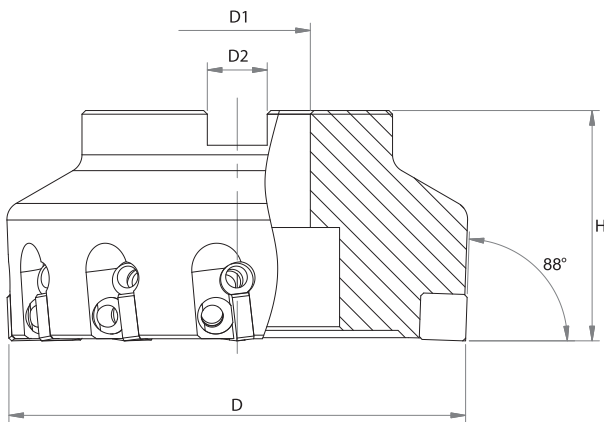
FACE MILLING CUTTER

SFAN .. 88



Axial rake angle : -7°

Radial rake angle : -10°



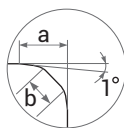
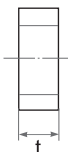
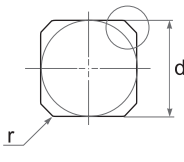
Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFAN 063-06-88 N4	63	22	10.4	40	6	SNCN 1204 ZZT SNCN 1204 ZN
SFAN 080-08-88 N4A	80	25.4	9.5	50	8	
SFAN 080-08-88 N4	80	27	12.4	50	8	
SFAN 100-10-88 N4A	100	31.75	12.7	50	10	
SFAN 100-10-88 N4	100	32	14.4	50	10	
SFAN 125-12-88 N4A	125	38.1	15.9	63	12	
SFAN 125-12-88 N4	125	40	16.4	63	12	

Dimensions (mm)	Spare parts				
D	Wedge	Wedge Screw	Adjust Wedge	Adjust Wedge Screw	Wrench
63 - 125	SW16	WS6 (M6)	SAW 20	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

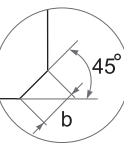
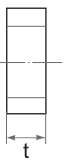
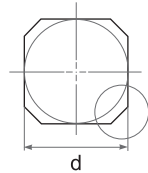
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5
Finishing	190~210	200~900	0.05~0.10	0.1~0.5	0.8
Finishing	220~240	200~700	0.05~0.10	0.1~0.5	0.8
Finishing	250~280	200~500	0.05~0.10	0.1~0.5	0.8

SNCN .. ZZT



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a	b																			
SNCN 1204 ZZT	SNCN 43 ZZT	12.70	4.76	3.25	1.10		●										●	●		●	●			

SNCN .. ZN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	b																				
SNCN 1204 ZN	SNCN 43 ZN	12.70	4.76	1.10													●							

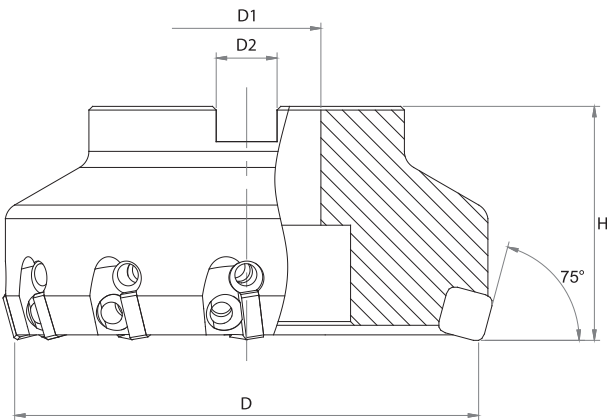
FACE MILLING CUTTER

SFAN .. 75



Axial rake angle : -6°

Radial rake angle : -10°



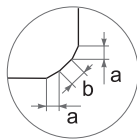
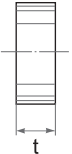
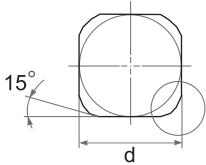
Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFAN 063-06-75 N4	63	22	10.4	40	6	SNCN 1204 ENTN SNGN 1204 □□
SFAN 080-08-75 N4A	80	25.4	9.5	50	8	
SFAN 080-08-75 N4	80	27	12.4	50	8	
SFAN 100-10-75 N4A	100	31.75	12.7	50	10	
SFAN 100-10-75 N4	100	32	14.4	50	10	
SFAN 125-12-75 N4A	125	38.1	15.9	63	12	
SFAN 125-12-75 N4	125	40	16.4	63	12	

Dimensions (mm)	Spare parts				
D	Wedge	Wedge Screw	Adjust Wedge	Adjust Wedge Screw	Wrench
					
63 - 125	SW16	WS6 (M6)	SAW 20	WS6 (M6)	LW3

Recommended Cutting Condition for Gray Cast Iron

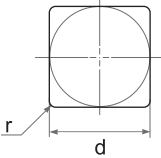
Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5
Finishing	190~210	200~900	0.08~0.15	0.1~0.5	0.8
Finishing	220~240	200~700	0.08~0.15	0.1~0.5	0.8
Finishing	250~280	200~500	0.08~0.15	0.1~0.5	0.8

SNCN .. ENTN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	a	b																			
SNCN 1204 ENTN	SNCN 43 ENTN	12.70	4.76	1.40	1.00																			

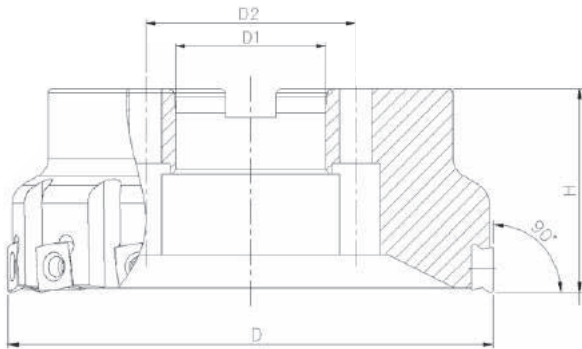
SNGN



Type		Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																				
SNGN 120412	SNGN 433	12.70	4.76	1.2																				
SNGN 120416	SNGN 434	12.70	4.76	1.6																				

FACE MILLING CUTTER

SFSX .. 00 .. EC



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFSX 050-05-00-A5EC	50	22		40	5	SPHX1205 NR
SFSX 050-05-00-A5ECA	50.8	19.05		44.5	5	
SFSX 063-07-00-A5EC	63	22	-	40	7	
SFSX 063-07-00-A5ECA	63.5	19.05		44.5	7	
SFSX 080-08-00-A5EC	80	27	-	50	8	
SFSX 080-08-00-A5ECA	76.2	25.4		44.5	8	
SFSX 100-12-00-A5EC	100	32	-	50	12	
SFSX 100-12-00-A5ECA	101.6	38.1		60.5	12	
SFSX 125-15-00-A5EC	125	40	-	63	15	
SFSX 125-15-00-A5ECA	127.0	38.1		60.5	15	
SFSX 160-18-00-A5EC	160	40	66.7	63	18	
SFSX 160-18-00-A5ECA	152.4	50.8		60.5	18	
SFSX 200-24-00-A5EC	200	60		63	24	
SFSX 200-24-00-A5ECA	203.2	63.5		60.5	24	
SFSX 250-30-00-A5EC	250	60		63	30	SPHX15T6 NR
SFSX 250-30-00-A5ECA	254.0	63.5		60.5	30	
SFSX 080-06-00-AT6EC	80	27	-	50	6	
SFSX 080-06-00-AT6ECA	76.2	25.4		44.5	6	
SFSX 100-08-00-AT6EC	100	32	-	50	8	
SFSX 100-08-00-AT6ECA	101.6	31.75		44.5	8	
SFSX 125-10-00-AT6EC	125	40	-	63	10	
SFSX 125-10-00-AT6ECA	127	38.1		60.5	10	
SFSX 160-14-00-AT6EC	160	40	66.7	63	14	
SFSX 160-14-00-AT6ECA	152.4	50.8		60.5	14	

CERAMIC

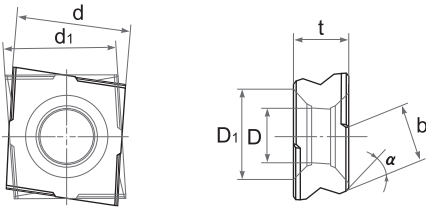
CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

SPHX



Type	Dimensions (mm)							ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	d	t	a	b	t	a	b																			
SPHX 1205NR 480T	11.67	11.33	5.50	5.10	8.41	45	8.0												●		●					
SPHX 1205NL 480T	11.67	11.33	5.50	5.10	8.41	45	8.0																			
SPHX 15T6NR 880T	14.58	14.33	6.60	6.10	10.18	45	8.80												●		●					

Dimensions (mm)	Spare parts	
D	Screw	Wrench
50 - 250 (SPHX1205 NR)	C94010	T15
80 - 160 (SPHX15T6 NR)	C95012	T20

CERAMIC

CERMET

PCBN
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PCD

TOOL
HOLDER

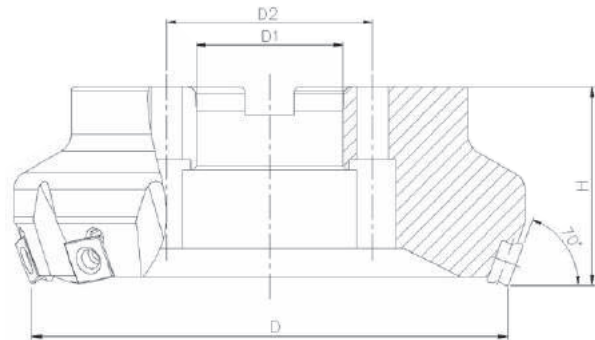
MILLING
CUTTER

Recommended Cutting Conditions

Process	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm) max
Gray Cast Irons	500 ~1,400	0.15 ~0.25	~5.0
Ductile Cast Irons	450 ~900	0.10 ~0.20	~3.0

FACE MILLING CUTTER

SFSX .. 70 .. EC



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFSX 050-05-70-A5EC	50	22		40	5	SPHX1205 ER
SFSX 050-05-70-A5ECA	50.8	19.05		44.5	5	
SFSX 063-07-70-A5EC	63	22	-	40	7	
SFSX 063-07-70-A5ECA	63.5	19.05		44.5	7	
SFSX 080-08-70-A5EC	80	27	-	50	8	
SFSX 080-08-70-A5ECA	76.2	25.4		44.5	8	
SFSX 100-12-70-A5EC	100	32	-	50	12	
SFSX 100-12-70-A5ECA	101.6	38.1		60.5	12	
SFSX 125-15-70-A5EC	125	40	-	63	15	
SFSX 125-15-70-A5ECA	127.0	38.1		60.5	15	
SFSX 160-18-70-A5EC	160	40	66.7	63	18	
SFSX 160-18-70-A5ECA	152.4	50.8	101.6	60.5	18	
SFSX 200-24-70-A5EC	200	60	101.6	63	24	
SFSX 200-24-70-A5ECA	203.2	63.5	101.6	60.5	24	
SFSX 250-30-70-A5EC	250	60	101.6	63	30	SPHX15T6 ER
SFSX 250-30-70-A5ECA	254.0	63.5	101.6	60.5	30	
SFSX 080-07-70-AT6EC	80	27	-	50	7	
SFSX 080-07-70-AT6ECA	76.2	25.4		44.5	7	
SFSX 100-09-70-AT6EC	100	32	-	50	9	
SFSX 100-09-70-AT6ECA	101.6	31.75		44.5	9	
SFSX 125-12-70-AT6EC	125	40	-	63	12	
SFSX 125-12-70-AT6ECA	127	38.1		60.5	12	
SFSX 160-16-70-AT6EC	160	40	66.7	63	16	
SFSX 160-16-70-AT6ECA	152.4	50.8	-	60.5	16	

CERAMIC

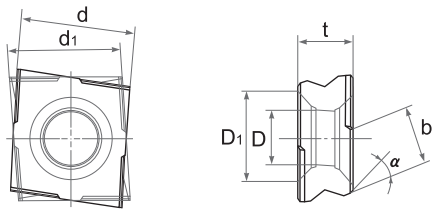
CERMET

PCBN
/
PCD

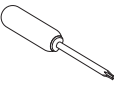
TOOL
HOLDER

MILLING
CUTTER

SPHX



Type	Dimensions (mm)							ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	d	d ₁	t	D	D ₁	α	b																			
SPHX 1205ER 855T	12.09	11.33	5.50	5.10	8.41	35	5.50												●		●					
SPHX 1205EL 855T	12.09	11.33	5.50	5.10	8.41	35	5.50												●							
SPHX 15T6ER 865T	15.50	14.33	6.60	6.10	10.18	35	6.50												●		●					

Dimensions (mm)	Spare parts	
	Screw	Wrench
		
50 - 250 (SPHX1205 ER)	C94010	T15
80 - 160 (SPHX15T6 ER)	C95012	T20

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

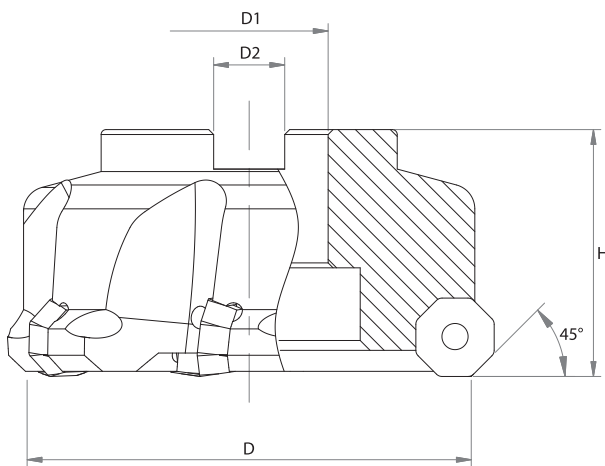
MILLING
CUTTER

FACE MILLING CUTTER

SFSP .. OT



Axial rake angle : +3°
Radial rake angle : +7°



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFSP 063-05-45-A4 OT	63	22	10.40	40	5	OEGB 0704 □□
SFSP 080-06-45-A4 OT	80	27	12.40	50	6	
SFSP 100-07-45-A4 OT	100	32	14.40	50	7	

Dimensions (mm)	Spare parts	
	Screw	Wrench
63 - 100	SWS 21480072	T20

CERAMIC

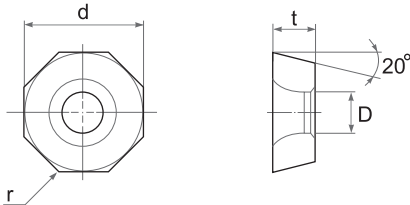
CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

OEGB



Type	Dimensions (mm)				ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
	d	t	D	r																			
OEGB 070408	15.87	4.76	5.18	0.8												●							
OEGB 070416	15.87	4.76	5.18	1.6											●	●							

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

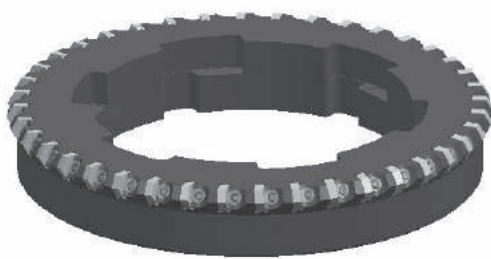
FACE MILLING CUTTER

SFKN .. HX



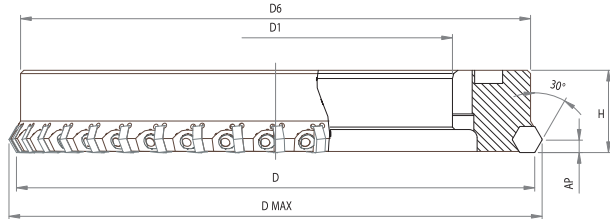
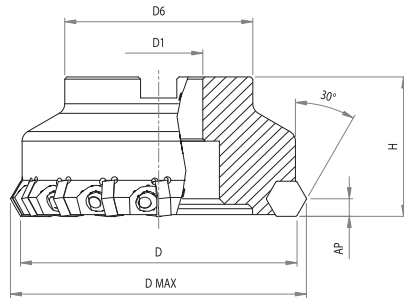
D : 80~200

Axial rake angle : -6°



D : 250~315

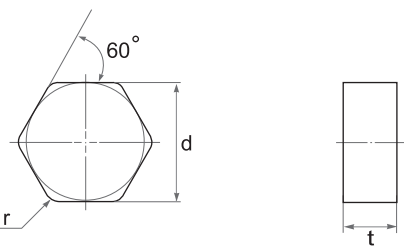
Radial rake angle : -7°



Type	Dimensions (mm)						AP max	Insert
	D	D(max)	D ₁	D ₆	H			
SFKN 080-08-30 N5HXA	80	88.7	25.4	52	50	8	8	HNEN 090520 HNEN 090530 HNEN 090508 ANSN
SFKN 080-08-30 N5HX	80	88.7	27	58	50	8	8	
SFKN 100-10-30 N5HXA	100	108.7	31.75	60	50	10	8	
SFKN 100-10-30 N5HX	100	108.7	32	60	50	10	8	
SFKN 125-16-30 N5HXA	125	133.7	38.1	80	63	16	8	
SFKN 125-16-30 N5HX	125	133.7	40	85	63	16	8	
SFKN 160-20-30 N5HXA	160	168.7	50.8	99	63	20	8	
SFKN 160-20-30 N5HX	160	168.7	40	85	63	20	8	
SFKN 200-26-30 N5HXA	200	208.7	47.625	128.57	63	26	8	
SFKN 200-26-30 N5HX	200	208.7	60	140	63	26	8	
SFKN 250-30-30 N5HXA	250	258.7	160.02	-	50	30	8	
SFKN 315-40-30 N5HXA	315	323.7	215.02	-	50	40	8	

Dimensions (mm)	Spare parts		
	Wedge	Wedge Screw	Wrench
80 - 315	DT-SW16	WS6	LW3

HNEN



Type	Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
	d	t	r																			
HNEN 090520	16.20	5.56	2.0											●	●							
HNEN 090530	16.20	5.56	3.0											●	●							
HNEN 090508 ANSN	15.87	5.64	0.8											●	●		●	●				

CERAMIC

CERMET

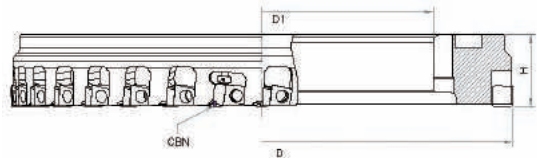
PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

FACE MILLING CUTTER

SFKP .. MF



Type	Dimensions (mm)					Insert
	D	D ₁	H	Ceramic	CBN	
SFKP 250-20-00 N4MF	250	160.02	50	18	2	SPCN120412(Ceramic)+CBN(Wiper)
SFKP 315-32-00 N4MF	315	215.02	50	28	4	SPCN120412(Ceramic)+CBN(Wiper)

Dimensions (mm)	Spare parts			
D	Wedge	Adjust Screw	Wedge Screw	Wrench
250 - 315	DT-DW01	AJM 5F	WS8	LW4

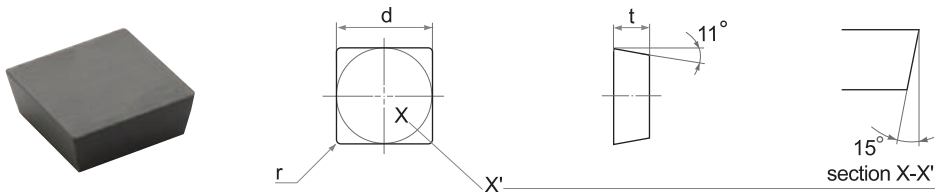
Recommended Cutting Condition for Gray Cast Iron

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)
Finishing	190~210	200~800	0.08~0.15	0.1~0.5
Finishing	220~240	200~600	0.08~0.15	0.1~0.5
Finishing	250~280	200~400	0.08~0.15	0.1~0.5

Recommended Cutting Condition for Ductile Cast Iron

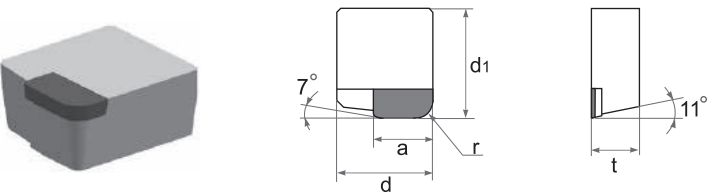
Process	Tensile Strength	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)
Finishing	400~500	300~600	0.08~0.15	0.1~0.5
Finishing	500~700	200~500	0.08~0.15	0.1~0.5

SPCN .. T



Type		Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																			
SPCN 120412 T15	SPCN 433 T15	12.70	4.76	1.2																			

SPCN .. T



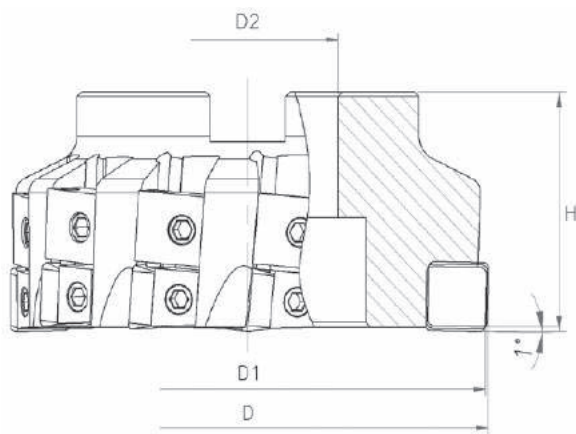
Type		Dimensions (mm)						PCBN	
ISO	ASA	d	D ₁	t	a	r		SBN1000	SBN2000
SPC 1206 ZZR2X	SPC 44 ZZR2X	12.70	14.50	6.35	7.80	2.0			

FACE MILLING CUTTER

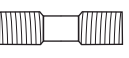
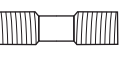
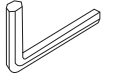
SFMS (MULTI-STEP) .. LRF

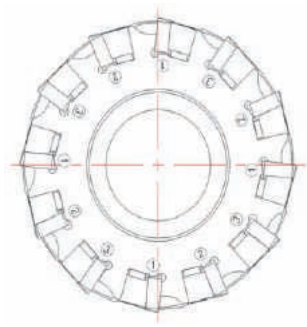


Axial rake angle : +5°
Radial rake angle : +6°



Type	Dimensions (mm)				Insert per set		Insert
	D	D ₁	D ₂	H			
SFMS 80-09-P4N.LRF	76.20	75.20	25.40	47.60	3	9	SPCN 1204 □□ T15
SFMS 100-12-P4N.LRF	101.60	100.60	38.10	47.60	3	12	
SFMS 125-15-P4N.LRF	127.00	126.00	38.10	47.60	3	15	
SFMS 160-18-P4N.LRF	152.40	151.40	50.80	47.60	3	18	

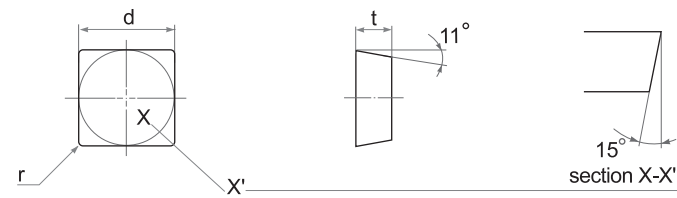
Dimensions (mm)	Spare parts				
	Wedge	Wedge Screw	ADJ Wedge	ADJ Wedge Screw	Wrench
					
80 - 160	DT-SW14	WS6	DT-SW15	WS6	LW3



Recommended Cutting Condition for Gray Cast Iron

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Light Rough & Finish	190~310	240~1,200	0.08~0.60	2.0~3.80	6.3~12.5

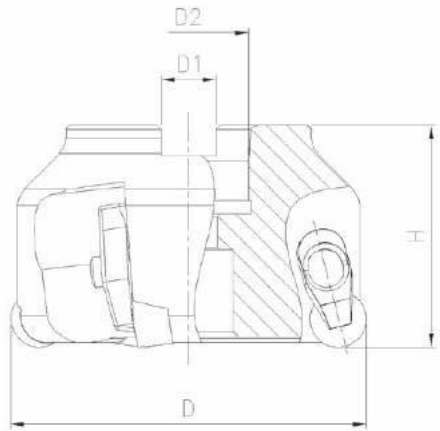
SPCN .. T



Type		Dimensions (mm)			ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t	r																			
SPCN 120412 T15	SPCN 433 T15	12.70	4.76	1.2												●							
SPCN 120416 T15	SPCN 434 T15	12.70	4.76	1.6												●							

FACE MILLING CUTTER

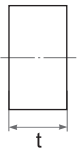
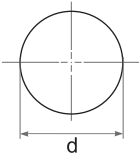
SFCN .. 00 .. R



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFCN 050-04-00 R4	50	10.4	22	50	4	RNGN 120400
SFCN 050-04-00 R4A	50.8	7.9	19.05	50	4	
SFCN 063-04-00 R4	63	10.4	22	50	4	
SFCN 063-04-00 R4A	63.5	7.9	19.05	50	4	
SFCN 080-05-00 R4	80	12.4	27	50	5	
SFCN 080-05-00 R4A	76.2	9.5	25.4	50	5	
SFCN 100-06-00 R4	100	14.4	32	50	6	
SFCN 100-06-00 R4A	101.6	12.7	31.75	50	6	
SFCN 050-04-00 R7	50	10.4	22	50	4	RNGN 120700
SFCN 050-04-00 R7A	50.8	7.9	19.05	50	4	
SFCN 063-04-00 R7	63	10.4	22	50	4	
SFCN 063-04-00 R7A	63.5	7.9	19.05	50	4	
SFCN 080-05-00 R7	80	12.4	27	50	5	
SFCN 080-05-00 R7A	76.2	9.5	25.4	50	5	
SFCN 100-06-00 R7	100	14.4	32	50	6	
SFCN 100-06-00 R7A	101.6	12.7	31.75	50	6	

Dimensions (mm)	Spare parts			
	Clamp	Clamp Screw	Spring	Wrench
50 - 100	AMS6T	AOB-6S	SP5	LW3

RNGN



Type		Dimensions (mm)		Grade			
ISO	ASA	d	t	SW400	SW800	SN800	SN1000
RNGN 120400	RNGN 43	12.7	4.76	●	●	●	●
RNGN 120700	RNGN 45	12.7	7.94	●	●	●	●

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MILLING
CUTTER

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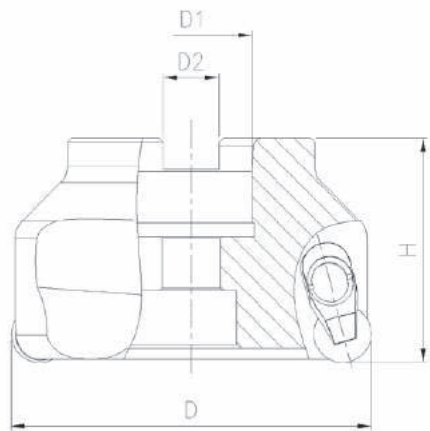
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FACE MILLING CUTTER

SFCP .. 00 .. R



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFCP 050-04-00 R4	50	10.4	22	50	4	RPGN 120400
SFCP 050-04-00 R4A	50.8	7.9	19.05	50	4	
SFCP 063-04-00 R4	63	10.4	22	50	4	
SFCP 063-04-00 R4A	63.5	7.9	19.05	50	4	
SFCP 080-05-00 R4	80	12.4	27	50	5	
SFCP 080-05-00 R4A	76.2	9.5	25.4	50	5	
SFCP 100-06-00 R4	100	14.4	32	50	6	
SFCP 100-06-00 R4A	101.6	12.7	31.75	50	6	

Dimensions (mm)	Spare parts			
	Clamp	Clamp Screw	Spring	Wrench
50 - 100	AMS6T	AOB-6S	SP5	LW3

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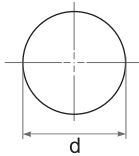
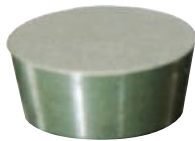
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MILLING
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RPGN



Type		Dimensions (mm)		Grade			
ISO	ASA	d	t	SW400	SW800	SN800	SN1000
RPGN120400	RPGN 43	12.7	4.76		●	●	●

CERAMIC

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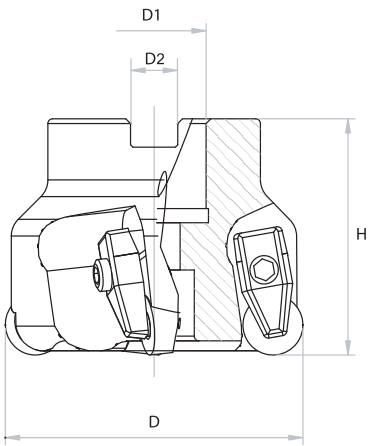
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MILLING
CUTTER

FACE MILLING CUTTER

SFXN



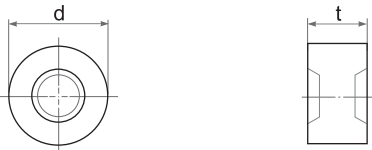
Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFXN 050-03-00 RX7A	50	19.05	7.9	50	3	RNGX 1207 DP
SFXN 050-03-00 RX7	50	22	10.4	50	3	
SFXN 063-04-00 RX7A	63	19.05	12.7	50	4	
SFXN 063-04-00 RX7	63	22	10.4	50	4	
SFXN 080-05-00 RX7A	80	25.4	9.5	50	5	
SFXN 080-05-00 RX7	80	27	12.4	50	5	
SFXN 100-06-00 RX7A	100	31.75	12.7	50	6	
SFXN 100-06-00 RX7	100	32	14.4	50	6	

Dimensions (mm)	Spare parts			
	Clamp	Screw	Spring	Wrench
50 - 100	SCL 5M	SLS4	SP4	LW3

Recommended Cutting Conditions

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm) max
Iron-base, Heat-resistant alloys	135~328	300~900	0.05~0.13	6.35
Cobalt-base, Heat-resistant alloys	150~425	270~1,200	0.05~0.13	6.35
Nickel base, Heat-resistant alloys	140~475	270~1,200	0.05~0.13	6.35
PH Stainless steels	135~450	520~700	0.08~0.10	6.35

RNGX .. DP



Type		Dimensions (mm)		ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t																			
RNGX 1207 DP	RNGX 45 DP	12.70	7.94												●		●	●	●			

CERAMIC

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MILLING
CUTTER

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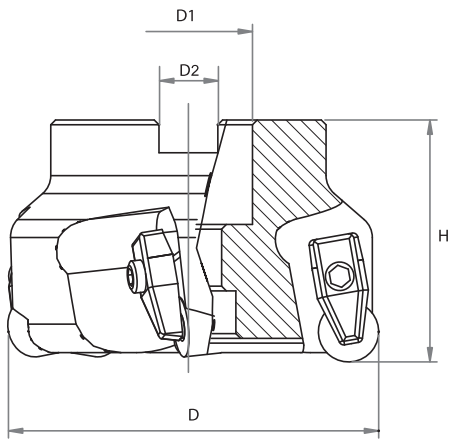
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HOLDER

MILLING
CUTTER

FACE MILLING CUTTER

SFXP



Type	Dimensions (mm)					Insert
	D	D ₁	D ₂	H		
SFXP 050-03-00 RP4A	50	19.05	7.9	50	3	RPGX 1204 DP
SFXP 050-03-00 RP4	50	22	10.4	50	3	
SFXP 050-04-00 RP4A	50	19.05	7.9	50	4	
SFXP 050-04-00 RP4	50	22	10.4	50	4	
SFXP 063-04-00 RP4A	63	19.05	7.9	63	4	
SFXP 063-04-00 RP4	63	22	10.4	63	4	
SFXP 080-05-00 RP4A	80	25.4	9.5	50	5	
SFXP 080-05-00 RP4	80	27	12.4	50	5	
SFXP 100-06-00 RP4A	100	31.75	12.7	50	6	
SFXP 100-06-00 RP4	100	32	14.4	50	6	

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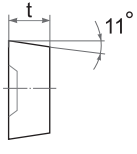
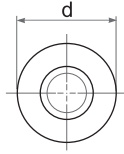
MILLING
CUTTER

Dimensions (mm)	Spare parts			
	Clamp	Screw	Spring	Wrench
50 - 100	SCL 5M	SLS4	SP4	LW3

Recommended Cutting Conditions

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth Ap(mm) max
Iron-base, Heat-resistant alloys	135~328	300~900	0.05~0.13	6.35
Cobalt-base, Heat-resistant alloys	150~425	270~1,200	0.05~0.13	6.35
Nickel base, Heat-resistant alloys	140~475	270~1,200	0.05~0.13	6.35
PH Stainless steels	135~450	520~700	0.08~0.10	6.35

RPGX .. DP



Type		Dimensions (mm)		ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t																			
RPGX 1204 DP	RPGX 43 DP	12.70	4.76												●			●	●			

CERAMIC

CERMET

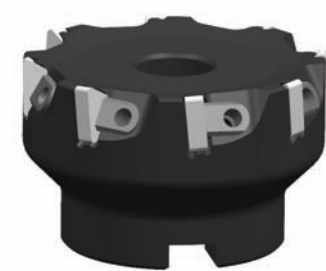
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FACE MILLING CUTTER

SFKN .. 90



Axial rake angle $\gamma_a = -6^\circ$
Radial rake angle $\gamma_r = -10^\circ$
Mounting According to DIN 8030

Type	Dimensions (mm)					Insert
	D	D ₁	L	L ₁		
SFKN 050-05-90 T4	50	22	10.4	40	5	TNCN 1604 TNGN 1604
SFKN 063-06-90 T4	63	22	10.4	40	6	
SFKN 080-08-90 T4	80	27	12.4	50	8	
SFKN 100-10-90 T4	100	22	14.4	50	10	
SFKN 125-12-90 T4	125	40	16.4	63	12	

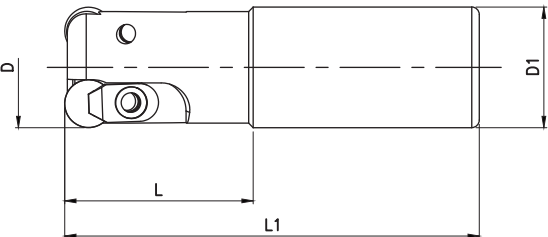
Dimensions (mm)	Spare parts		
D	Wedge	Wedge Screw	Wrench
50~125	SSW10	WS6	LW3

Recommended Cutting Condition for Gray Cast Iron

Work - piece	Cutting Speed Vc [m/min]	Feed Fz [mm/z]	Depth Ap [mm] mx	Surface Quality Ra(μm)
Gray Cast Iron	600~1000	0.16~0.3	0.5~1.0	6.3~12.5

FACE MILLING CUTTER

SECP



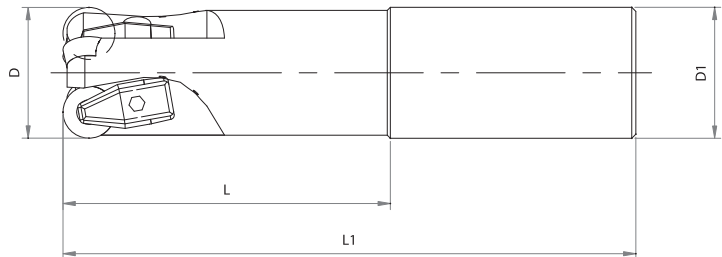
Type	Dimensions (mm)					Insert
	D	D ₁	L	L ₁		
SECP 016-02-2575 RP2	16	16	25	75	2	RPGN0602
SECP 020-02-3085 RP3	20	20	30	85	2	RPGN0903
SECP 020-03-3085 RP2	20	20	30	85	3	RPGN0602
SECP 025-03-4095 RP3	25	25	40	95	3	RPGN0903
SECP 032-03-50110 RP4	32	32	50	110	3	RPGN1204
SECP 040-04-50110 RP4	40	32	50	110	4	RPGN1204
SECP 016-02-2575 RP2A	16	15.88	25	75	2	RPGN0602
SECP 020-03-3085 RP3A	20	19.05	30	85	2	RPGN0903
SECP 020-03-3085 RP2A	20	19.05	30	85	3	RPGN0602
SECP 025-03-4095 RP3A	25	25.40	40	95	3	RPGN0903
SECP 032-03-50110 RP4A	32	31.75	50	110	3	RPGN1204
SECP 040-04-50110 RP4A	40	38.10	50	110	4	RPGN1204

Dimensions (mm)	Spare parts			
D	Clamp	Clamp Screw	Spring	Wrench
16~40	AMS-3 AMS-4 AMS-5T	AOB3S AOB4S AOB5S	SP3 SP4 SP5	LW2 LW2.5 LW3

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth Ap(mm) max
Iron Based Heat Resistant Alloys	135~328	800~1,400	0.05~0.15	6.35
Nickel Based Resistant Alloys	150~425	1,400~2,000	0.05~0.15	6.35
Cobalt Based Resistant Alloys	140~475	1,400~2,000	0.05~0.15	6.35

BALL ENDMILL

SEXP



Type	Dimensions (mm)					Insert
	D	D ₁	L	L ₁		
SEXP 032-02-80140 X4	32	32	80	140	2	RPGX 1204 DP
SEXP 032-03-40100 X4A	32	31.75	40	100	3	
SEXP 032-03-40100 X4	32	32	40	100	3	
SEXP 032-03-80140 X4A	32	31.75	80	140	3	
SEXP 032-03-80140 X4	32	32	80	140	3	
SEXP 038-03-50100 X4A	38	38.1	50	100	3	
SEXP 038-03-50100 X4	38	32	50	100	3	
SEXP 038-03-90140 X4A	38	38.1	90	140	3	
SEXP 038-03-90140 X4	38	32	90	140	3	

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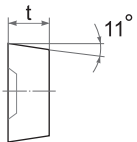
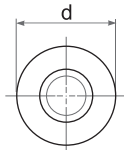
MILLING
CUTTER

Dimensions (mm)	Spare parts			
	Clamp	Screw	Spring	Wrench
32 - 38	SCL 5M	SLS4	SP4	LW3

Recommended Cutting Conditions

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm) max
Iron-base, Heat-resistant alloys	135~328	300~900	0.05~0.13	6.35
Cobalt-base, Heat-resistant alloys	150~425	270~1,200	0.05~0.13	6.35
Nickel base, Heat-resistant alloys	140~475	270~1,200	0.05~0.13	6.35
PH Stainless steels	135~450	520~700	0.08~0.10	6.35

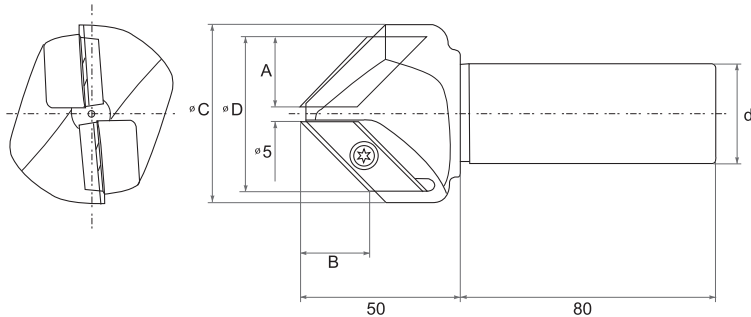
RPGX .. DP



Type		Dimensions (mm)		ST100	ST300	ST500	ST900	TC300	TM300	SD200	SZ200	SZ300	SN26	SN300	SN400	SN500	SN600	SN800	SN1000	NC400	SW400	SW800
ISO	ASA	d	t																			
RPGX 1204 DP	RPGX 43 DP	12.70	4.76												●			●	●			

CHAMFER CUTTER

CSC

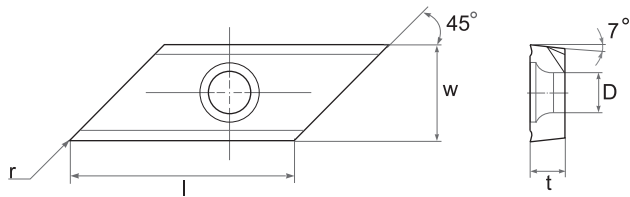


Type	Dimensions (mm)							Insert	Spare parts	
	θ	A	B	∅C	∅D	d			Screw	Wrench
CSC 0503 1R-30	30°	15.5	20.5	40	36.0	32.0	1	XCET 310404ER	SDT050	T-20
CSC 0503 1R-30-A	30°	15.5	20.5	40	36.0	25.4	1			
CSC 0503 1R-30-A-2F	30°	15.5	26.0	47	43.0	25.4	2			
CSC 0503 1R-41-A	41°	20.5	20.5	56	46.0	25.4	2			
CSC 0503 1R-45	45°	22.0	20.5	56	46.0	32.0	2			
CSC 0503 1R-45-A	45°	22.0	20.5	56	46.0	25.4	2			
CSC 0503 1R-60	60°	26.5	15.0	72	55.0	32.0	2			
CSC 0503 1R-60-A	60°	26.5	15.0	72	55.0	25.4	2			

Recommended Cutting Conditions

Work piece	Carbon Steel (S55C) Stainless Steel 250HB ≥ Cast Iron (FC250)	Alloy Steel (SCM440) 300HB ≥ High Alloy Steel (SKD61) 300HB ≥
Feed (mm/tooth)	0.1~0.25	0.1~0.2
rpm	3000(1000 ~7000)	

XCET



Type	Dimensions (mm)					Grade		
ISO	l	w	t	D	r	TX515	TX520	SCW200
XCET 310404 ER	22.00	12.70	4.50	5.60	0.4		●	●
XCET 310408 ER	22.00	12.70	4.50	5.60	0.8		●	

*SCW200 is a coated carbide grade for P20 range machining.

TECHNICAL DATA

30° Chamfer

Hole Dia ∅d	Dimensions (mm)							
	0.5	1	1.5	2	2.5	3	3.5	4
5	0.8	1.3	1.8	2.3	2.8			
6	1.7	2.2	2.7	3.2	3.7			
6.8	2.4	2.9	3.4	3.9	4.4			
8	3.4	3.9	4.4	4.9	5.4			
8.5	3.8	4.3	4.8	5.3	5.8			
10	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6
10.2	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8
12	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4
16	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8
17.5	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1
20	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2
21	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
24	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7
30	22.4	22.9	23.4	23.9	24.4	24.9	25.4	
33	24.9	25.4						

CSC 05031R-30

45° Chamfer

Hole Dia ∅d	Dimensions (mm)						
	0.5	1	1.5	2	3	4	5
5	0.7	1.2	1.7	2.2	3.2		
6	1.2	1.7	2.2	2.7	3.7		
6.8	1.6	2.1	2.6	3.1	4.1		
8	2.2	2.7	3.2	3.7	4.7		
8.5	2.4	2.9	3.4	3.9	4.9		
10	3.2	3.7	4.2	4.7	5.7	6.7	7.7
10.2	3.3	3.8	4.3	4.8	5.8	6.8	7.8
12	4.2	4.7	5.2	5.7	6.7	7.7	8.7
14	5.2	5.7	6.2	6.7	7.7	8.7	9.7
16	6.2	6.7	7.2	7.7	8.7	9.7	10.7
17.5	6.9	7.4	7.9	8.4	9.4	10.4	11.4
20	8.2	8.7	9.2	9.7	10.7	11.7	12.7
21	8.7	9.2	9.7	10.2	11.2	12.2	13.2
24	10.2	10.7	11.2	11.7	12.7	13.7	14.7
30	13.2	13.7	14.2	14.7	15.7	16.7	17.7
33	14.7	15.2	15.7	16.2	17.2	18.2	19.2
36	16.2	16.7	17.2	17.7	18.7	19.7	
42	19.2	19.7	20.2				

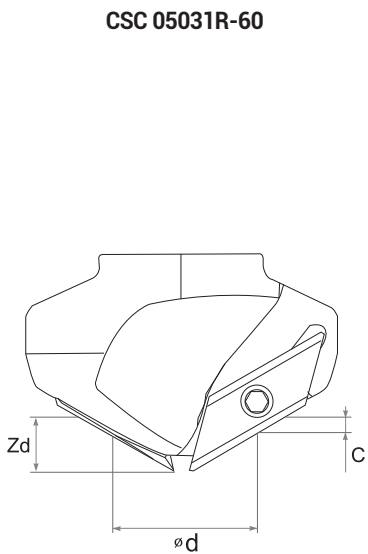
CSC 05031R-45

CHAMFER CUTTER

TECHNICAL DATA

60° Chamfer

Hole Dia Ød	Dimensions (mm)						
	0.5	1	1.5	2	2.5	3	3.5
5	0.6	1.1	1.6	2.1			
6	0.9	1.4	1.9	2.4			
6.8	1.1	1.6	2.1	2.6			
8	1.4	1.9	2.4	2.9			
8.5	1.6	2.1	2.6	3.1			
10	2.0	2.5	3.0	3.5	4.0	4.5	5.0
10.2	2.1	2.6	3.1	3.6	4.1	4.6	5.1
12	2.6	3.1	3.6	4.1	4.6	5.1	5.6
16	3.7	4.2	4.7	5.2	5.7	6.2	6.7
17.5	4.2	4.7	5.2	5.7	6.2	6.7	7.2
20	4.9	5.4	5.9	6.4	6.9	7.4	7.9
21	5.2	5.7	6.2	6.7	7.2	7.7	8.2
24	6.1	6.6	7.1	7.6	8.1	8.6	9.1
30	7.8	8.3	8.8	9.3	9.8	10.3	10.8
33	8.7	9.2	9.7	10.2	10.7	11.2	11.7
36	9.5	10.0	10.5	11.0	11.5	12.0	12.5
38	10.1	10.6	11.1	11.6	12.1	12.6	13.1
42	11.2	11.7	12.2	12.7	13.2	13.7	14.2
46	12.4	12.9	13.4	13.9	14.4		
48	13.0	13.5	14.0	14.5			
52	14.1						



CERAMIC

CERMET

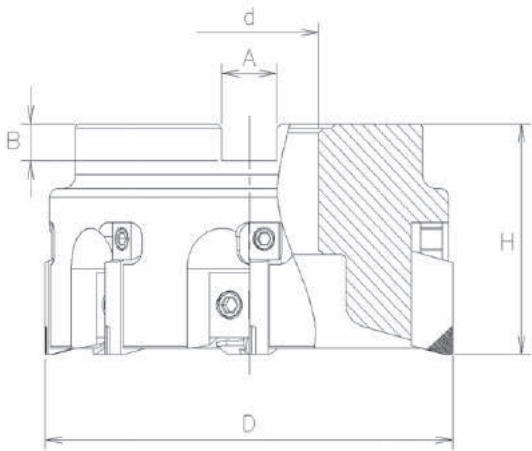
PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

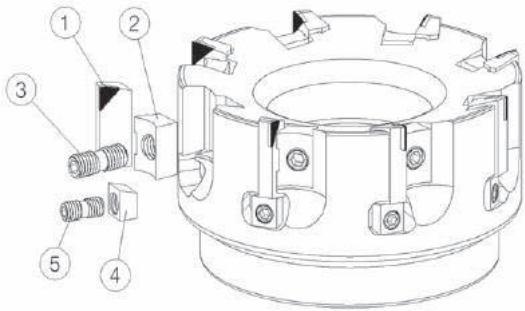
ALUMINUM CUTTER

HPA - I



Type	Dimensions (mm)						Weight (kg)	Insert	Arbor
	ØD	Ød	A	B	H				
HPA 025R-I09	63	22	10	6	50	6	0.5	HPA-I09	FMA 22
HPA 03R-I09	80	25.4	9.5	6	50	8	0.7		FMA 25.4
HPA 04R-I09	100	31.75	12.7	8	63	10	1.4		FMA 31.75
HPA 05R-I09	125	38.1	15.9	10	63	12	1.8		FMA 38.1
HPA 06R-I09	160	50.8	19.05	11	63	14	2.4		FMA 50.8
HPA 08R-I09	200	47.625	25.4	14	63	16	3.5		FMA 47.625
HPA 10R-I09	250	47.625	25.4	14	63	18	4.8		FMA 47.625

COMPONENT



Spare parts				
① Insert	② Wedge	③ Wedge Screw	④ Adjust Wedge	⑤ Adjust Wedge Screw
HPA-I09	DT-ST01	WS6-16	DT-ST02	WS5-11

CERAMIC

CERMET

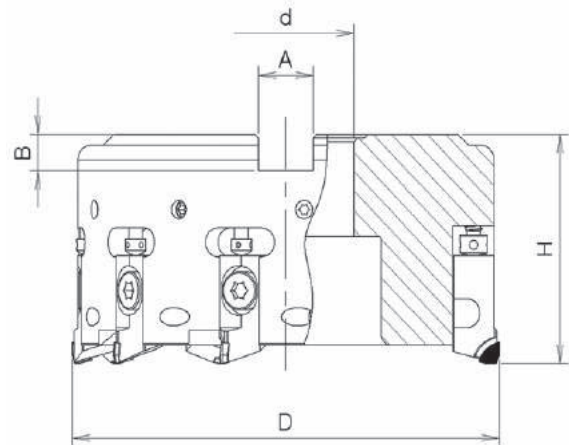
PCBN
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TOOL
HOLDER

MILLING
CUTTER

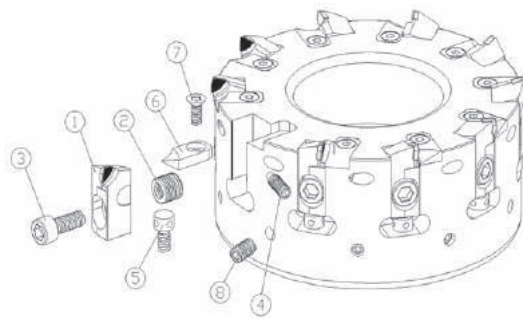
ALUMINUM CUTTER

HPA - H



Type	Dimensions (mm)						Weight (kg)	Insert	Arbor
	ØD	Ød	A	B	H				
HPA 02R-H10	50	16	8	6.2	50	4	0.4	ROUGH HPA 10CA-R WIPER HPA 10CA-W	FMA 16
HPA 025R-H10	63	22	10	6	50	4	0.5		FMA 22
HPA 03R-H10	80	25.4	9.5	6	50	6	0.7		FMA 25.4
HPA 04R-H10	100	31.75	12.7	8	50	7	2.2		FMA 31.75
HPA 05R-H10	125	38.1	15.9	10	63	10	1.4		FMA 38.1
HPA 06R-H10	160	50.8	19.05	11	63	12	2.5		FMA 50.8
HPA 08R-H10	200	47.625	25.4	14	63	14	3.5		FMA 47.625
HPA 10R-H10	250	47.625	25.4	14	63	18	4.9		FMA 47.625

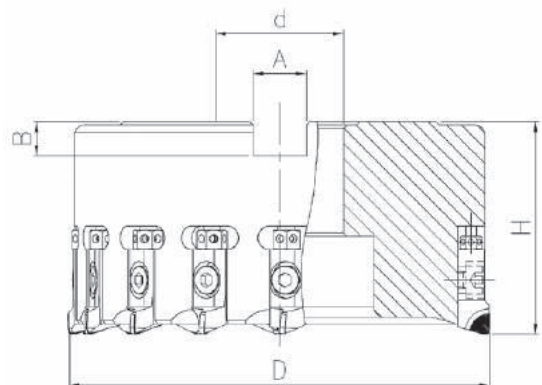
COMPONENT



Spare parts				
① Cartridge	① Cartridge	② Double Screw	③ Clamp Screw	④ Side Clamp Screw
HPA 10CA-R	HPA 10CA-W	H108	M6×15	M6×16
⑤ Adjust Screw	⑥ Chip Cover	⑦ Chip Cover Screw	⑧ Balancing Screw	
AJM 5F	HC-R/L	M4×10	M6×10	

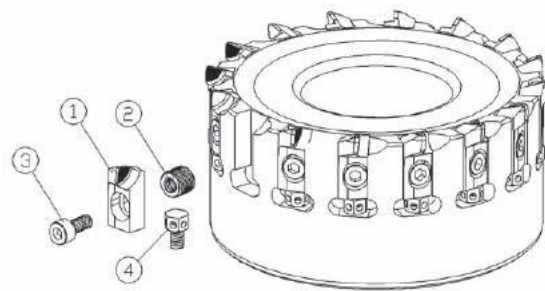
ALUMINUM CUTTER

HPA - M



Type	Dimensions (mm)						Weight (kg)	Insert	Arbor
	ØD	Ød	A	B	H				
HPA 03R-M10	80	25.4	9.5	6	50	10	0.8	ROUGH HPA 08CA-R WIPER HPA 08CA-W	FMA 25.4
HPA 04R-M10	100	31.75	12.7	8	50	12	1.2		FMA 31.75
HPA 05R-M10	125	38.1	15.9	10	63	14	2.2		FMA 38.1
HPA 06R-M10	160	50.8	19.05	11	63	18	2.8		FMA 50.8
HPA 08R-M10	200	47.625	25.4	14	63	24	4.5		FMA 47.625
HPA 10R-M10	250	47.625	25.4	14	63	30	7		FMA 47.625

COMPONENT

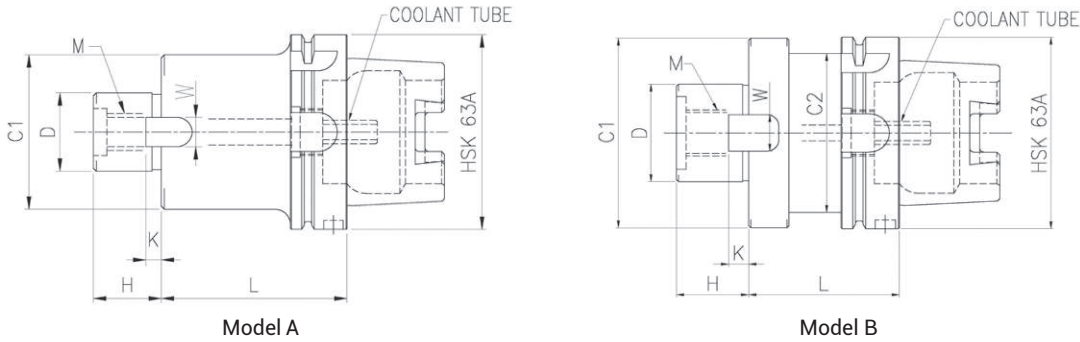


Spare parts				
① Cartridge	① Cartridge	② Double Screw	③ Clamp Screw	④ Adjust Screw
HPA 08CA-R	HPA 08CA-W	H107	M5×12	AJM 5F

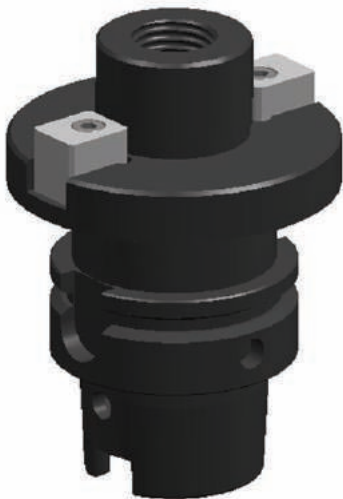
ALUMINUM CUTTER

ARBOR

TURNING
&
MILLING



Type	Dimensions (mm)							M	Weight (kg)	Model	Cutter
	D	L	H	C ₁	C ₂	W	K				
HSK 63A-FMA22-50	22	50	19	50	50	9.5	5	M10	1.2	A	HPA 025R
HSK 63A-FMA25.4-60	25.4	60	22	50	50	9.5	5	M12	1.3	A	HPA 03R
HSK 63A-FMA25.4-90	25.4	90	22	50	50	9.5	5	M12	1.9	A	HPA 03R
HSK 63A-FMA25.4-120	25.4	120	22	50	50	9.5	5	M12	2.3	A	HPA 03R
HSK 63A-FMA31.75-60	31.75	60	30	60	53	12.7	7	M16	1.7	B	HPA 04R
HSK 63A-FMA31.75-90	31.75	90	30	60	53	12.7	7	M16	2.5	B	HPA 04R
HSK 63A-FMA31.75-120	31.75	120	30	60	53	12.7	7	M16	3.3	B	HPA 04R
HSK 63A-FMA38.1-60	38.1	60	34	80	53	15.9	9	M20	2.1	B	HPA 05R
HSK 63A-FMA38.1-90	38.1	90	34	80	53	15.9	9	M20	3	B	HPA 05R
HSK 63A-FMA38.1-120	38.1	120	34	80	53	15.9	9	M20	4.4	B	HPA 05R



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CERMET

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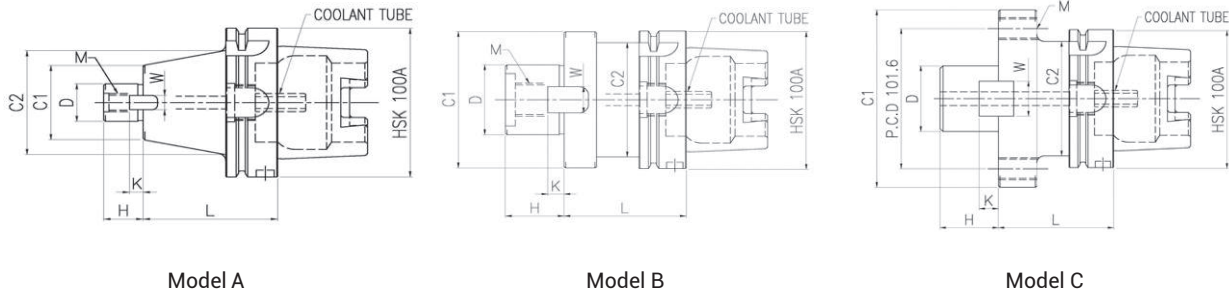
TOOL
HOLDER

MILLING
CUTTER

ALUMINUM CUTTER

ARBOR

TURNING
&
MILLING



Type	Dimensions (mm)							M	Weight (kg)	Model	Cutter
	D	L	H	C ₁	C ₂	W	K				
HSK 100A-FMA25.4-75	25.4	75	22	50	70	9.5	5	M12	3.2	A	HPA 03R
HSK 100A-FMA25.4-105	25.4	105	22	50	70	9.5	5	M12	3.9	A	HPA 03R
HSK 100A-FMA25.4-135	25.4	135	22	50	70	9.5	5	M12	4.6	A	HPA 03R
HSK 100A-FMA31.75-75	31.75	75	30	60	70	12.7	7	M16	3.5	A	HPA 04R
HSK 100A-FMA31.75-105	31.75	105	30	60	70	12.7	7	M16	4.3	A	HPA 04R
HSK 100A-FMA31.75-135	31.75	135	30	60	70	12.7	7	M16	5.1	A	HPA 04R
HSK 100A-FMA38.1-75	38.1	75	34	80	80	15.9	9	M20	4.4	A	HPA 05R
HSK 100A-FMA38.1-105	38.1	105	34	80	80	15.9	9	M20	5.7	A	HPA 05R
HSK 100A-FMA38.1-135	38.1	135	34	80	80	15.9	9	M20	7.0	A	HPA 05R
HSK 100A-FMA50.8-75	50.8	75	36	99	83	19.05	10	M24	5.7	B	HPA 06R
HSK 100A-FMA50.8-105	50.8	105	36	99	83	19.05	10	M24	7.7	B	HPA 06R
HSK 100A-FMA50.8-135	50.8	135	36	99	83	19.05	10	M24	9.7	B	HPA 06R
HSK 100A-FMA47.625-75	47.625	75	38	128.57	83	25.4	12.5	M16		C	HPA 08R

CERAMIC

CERMET

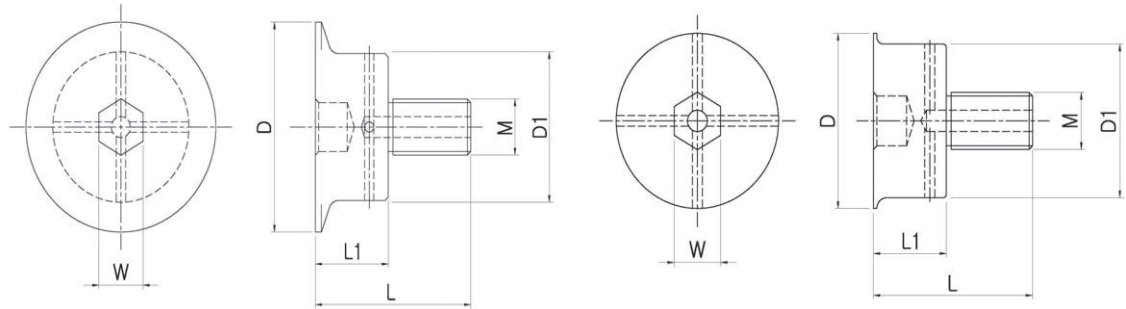
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TOOL
HOLDER

MILLING
CUTTER

ALUMINUM CUTTER

MOUNT'G BOLT



Model A

Model B

Type	Dimensions (mm)					M	Model	Cutter	Arbor
	D	D ₁	L	L ₁	W				
ICM-M10	28	16.5	41	11	8	M10	A	HPA 025R-I09	FMA 22
HCM-M10	25	18	43	10	8	M10	B	HPA 025R-H10	
ICM-M12	44	26	42	15.4	10	M12	A	HPA 03R-I09	FMA 25.4
HCM-M12	40	34	47.5	25.5	12	M12	B	HPA 03R-H10	
ICM-M16	60	43	49	23	14	M16	A	HPA 04R-I09	FMA 31.75
HCM-M16	49	43	48	22	14	M16	B	HPA 04R-H10	
ICM-M20	79	53.6	58.8	27.8	14	M20	A	HPA 05R-I09	FMA 38.1
HCM-M20	60	54	63	32	14	M20	B	HPA 05R-H10	
ICM-M24	110	65	60	22	17	M24	A	HPA 06R-I09	FMA 50.8
HCM-M24	71	65	60	22	17	M24	B	HPA 06R-H10	

CERAMIC

CERMET

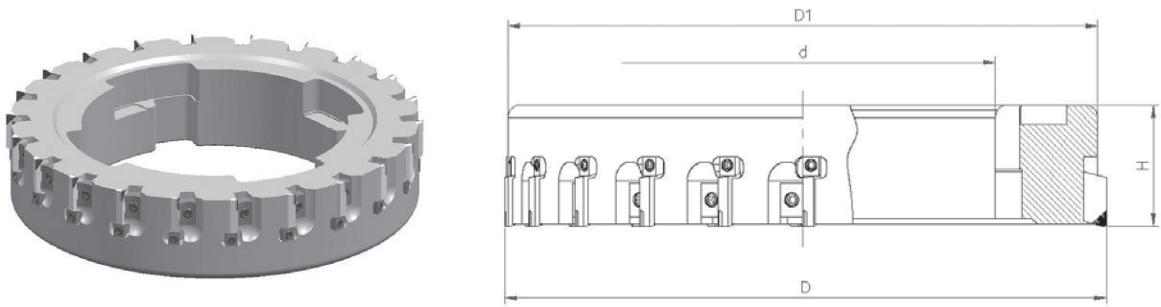
PCBN
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TOOL
HOLDER

MILLING
CUTTER

ALUMINUM CUTTER

QCB - I



Type	Dimensions (mm)					Insert
	D	D ₁	d	H		
QCB D200-I09	200	195	120.02	50	18	HPA-I09
QCB D250-I09	250	245	160.02	50	22	
QCB D315-I09	315	310	215.02	50	28	

Spare parts				
① Insert	② Wedge	③ Wedge Screw	④ Adjust Wedge	⑤ Adjust Wedge Screw
HPA-I09	DT-ST01	WS6-16	DT-ST02	WS5-11

CERAMIC

CERMET

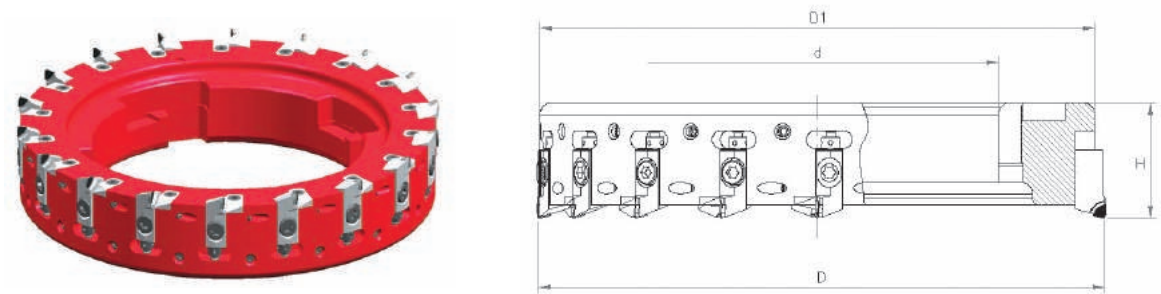
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TOOL
HOLDER

MILLING
CUTTER

ALUMINUM CUTTER

QCB - H



Type	Dimensions (mm)					Insert
	D	D ₁	d	H		
QCB D200-H10	200	195	120.02	50	14	HPA 10CA-R HPA 10CA-W
QCB D250-H10	250	245	160.02	50	18	
QCB D315-H10	315	310	215.02	50	22	

Spare parts				
① Cartridge	① Cartridge	② Double Screw	③ Clamp Screw	④ Side Clamp Screw
				
HPA 10CA-R	HPA 10CA-W	H108	M6×15	M6×16
⑤ Adjust Screw	⑥ Chip Cover	⑦ Chip Cover Screw	⑧ Balancing Screw	
				
AJM 5F	HC-R/L	M4×10	M6×10	

CERAMIC

CERMET

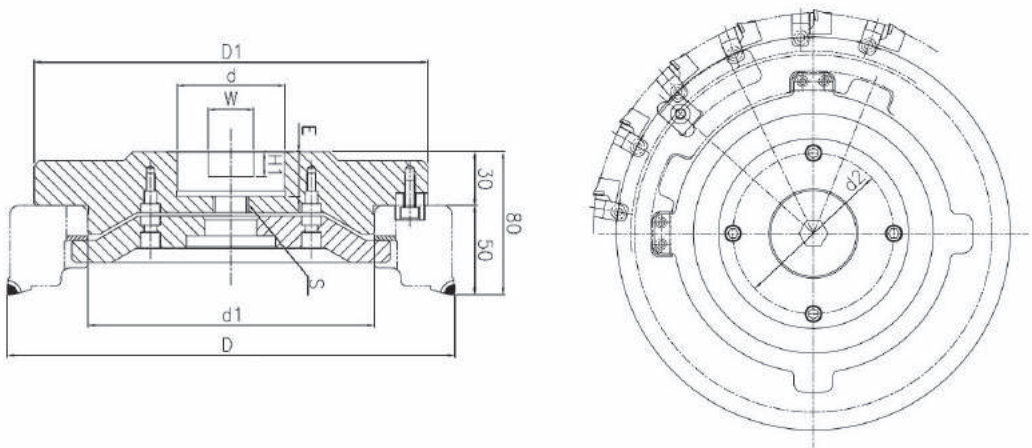
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TOOL
HOLDER

MILLING
CUTTER

ALUMINUM CUTTER

ARBOR



Type	Dimensions (mm)								Center Bolt
	D	D ₁	d	d ₁	W	H ₁	S	E	
QCBA-D200	200	195	47.625	119.97	25.4	14	M20	25	TMBA-M20
QCBA-D250	250	245	60	159.97	25.4	14	M20	25	
QCBA-D315	315	310	60	214.97	25.4	14	M20	25	

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TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

CYLINDER BLOCK



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

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/
PCD

TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

CYLINDER BLOCK



CERAMIC

CERMET

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/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

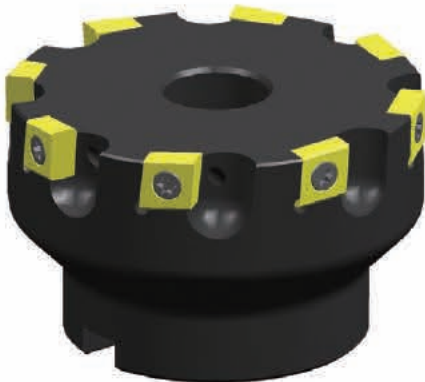
MILLING
CUTTER

SPECIAL TOOLS

CYLINDER BLOCK



• REAR FACE MILLING CUTTER



• FACE MOUNTING BOSSES
MILLING CUTTER



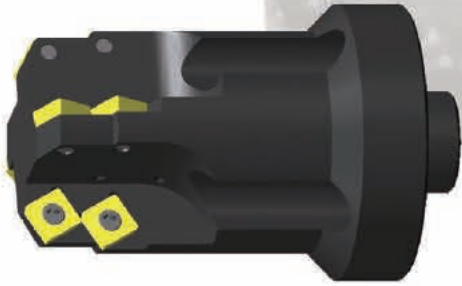
• OIL MAIN
CHANNEL
DRILL



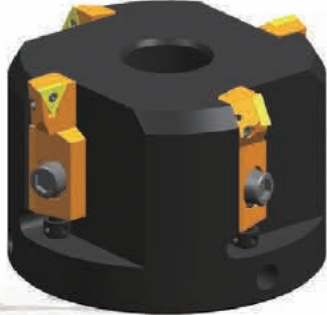
• FACE HOLE
TRANSMISSION
DRILL



• SLOT SPEED SENSOR
ENDMILL



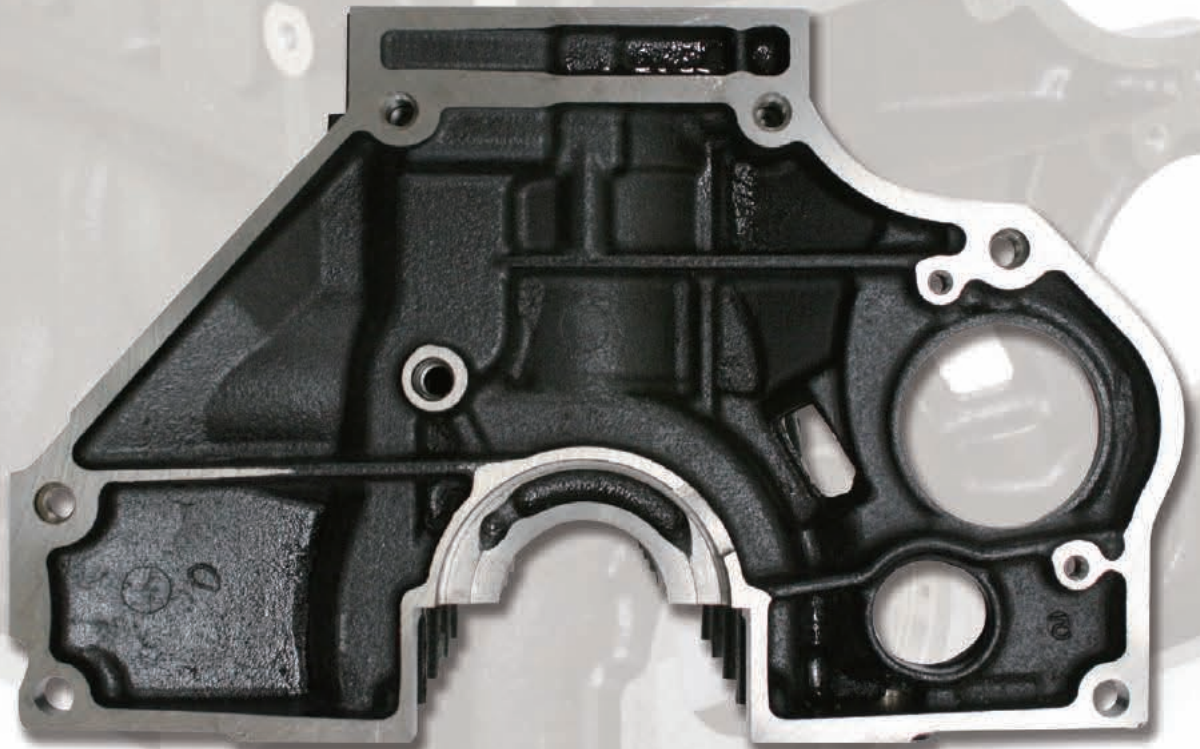
• CUT OUT STARTER
BORING TOOL



• STOP FACE SEALING CRANK
SHAFT BORING TOOL



• CRANK HONING HOLDER



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

PCBN
/
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TOOL
HOLDER

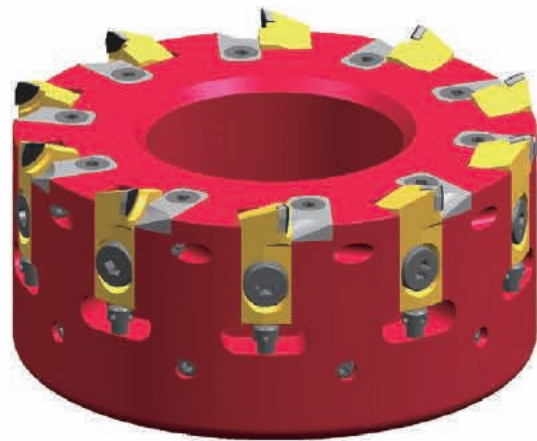
MILLING
CUTTER

SPECIAL TOOLS

CYLINDER HEAD



• EXHAUST FACE MILLING CUTTER



• TOP FACE MILLING CUTTER



• SEAT LIFTER-VALVE IN & EX BORING TOOL



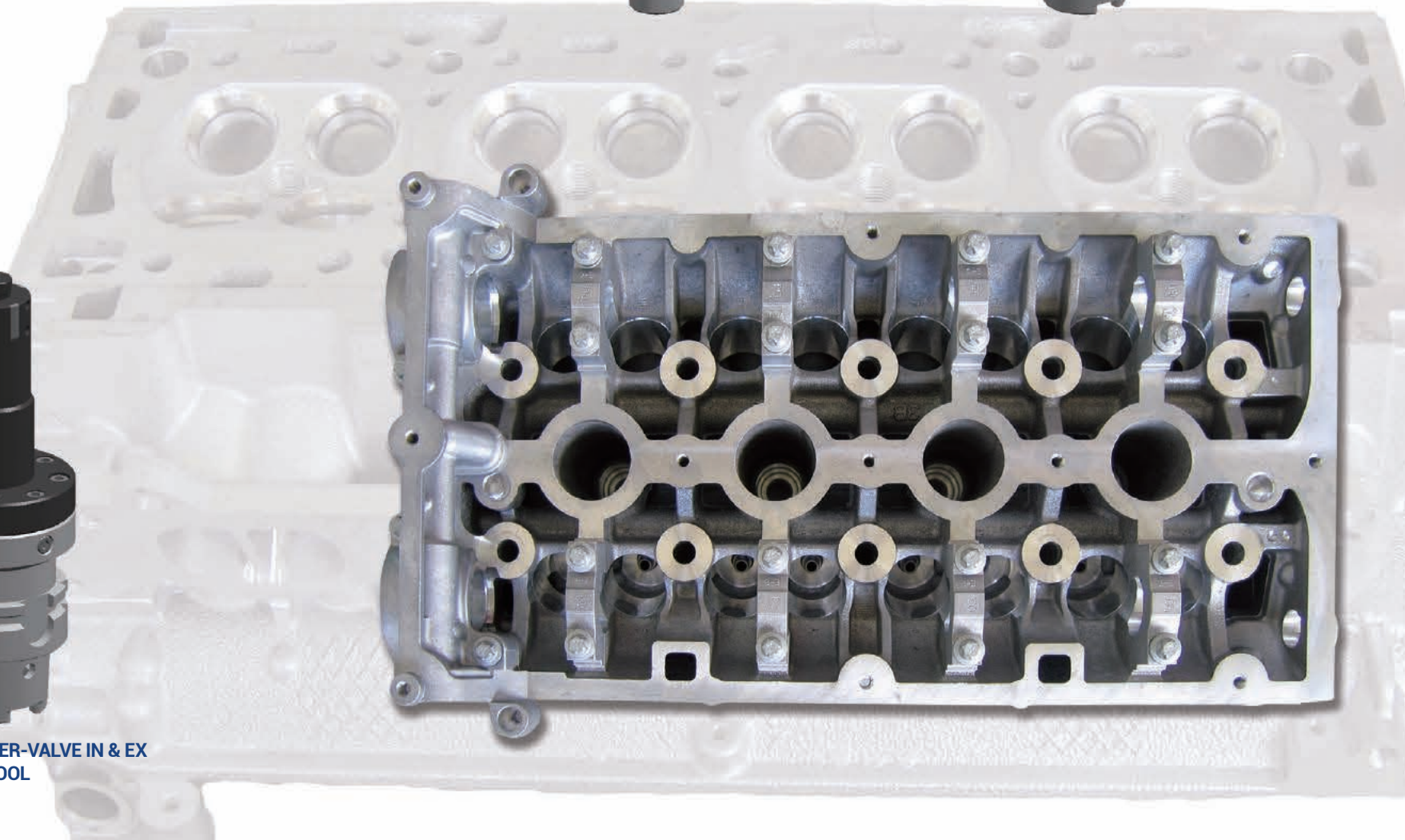
• SEAT LIFTER-VALVE IN & EX BORING TOOL



• SPARK PLUG HOLE REAMER



• VALVE GUIDE SEAT LIFTER VALVE BORING TOOL



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/
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TOOL
HOLDER

MILLING
CUTTER

CERAMIC

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TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

CYLINDER HEAD



• CAMSHAFT BEARING CHAMFER



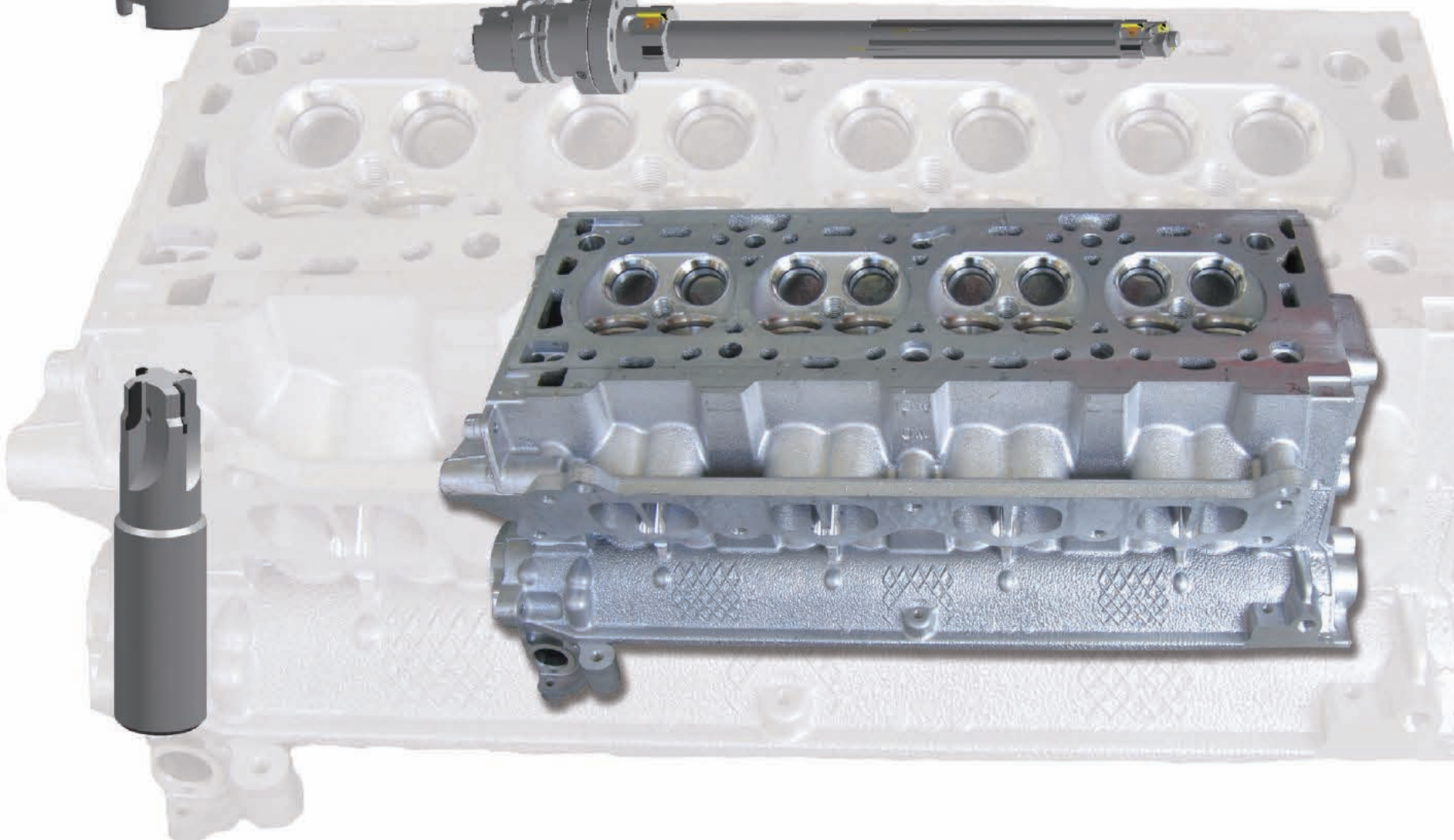
• VALVE SEAT GUIDE BORING TOOL



• CAMSHAFT BEARING FINISH BORING TOOL



• VALVE SEAT GUIDE FINISH BORING TOOL



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

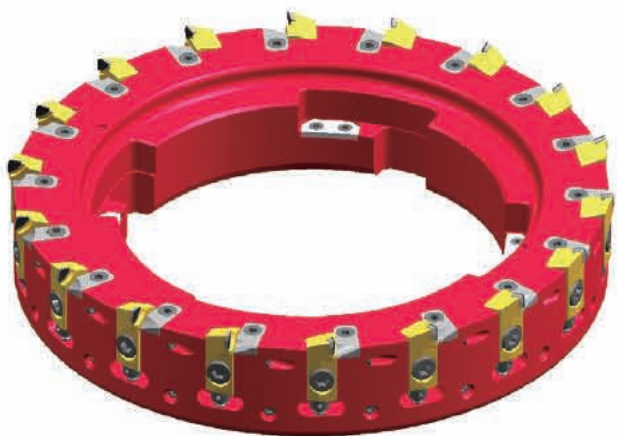
MILLING
CUTTER

SPECIAL TOOLS

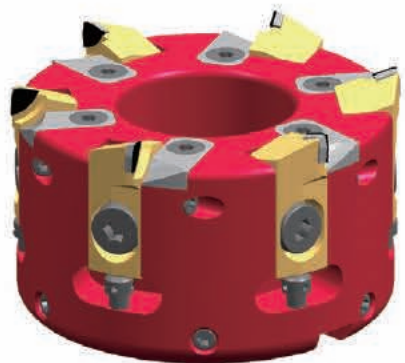
T/MISSION CASE



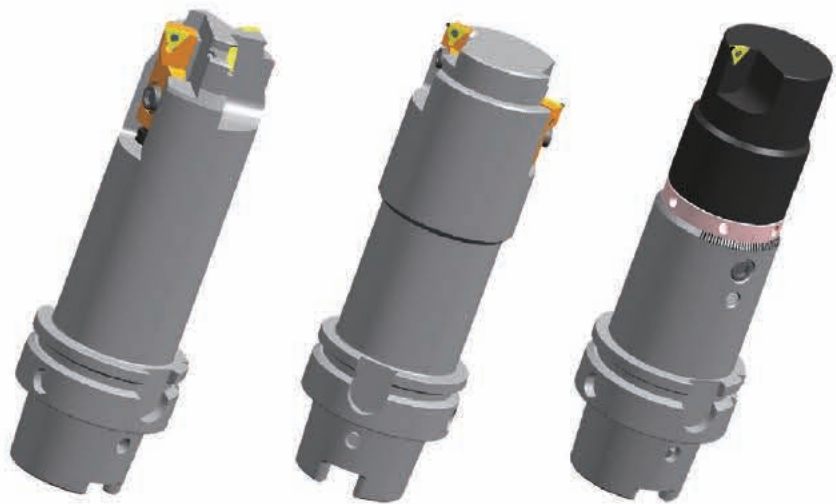
• GEAR SHIFT SHAFT LOCK HOLE BORING TOOL



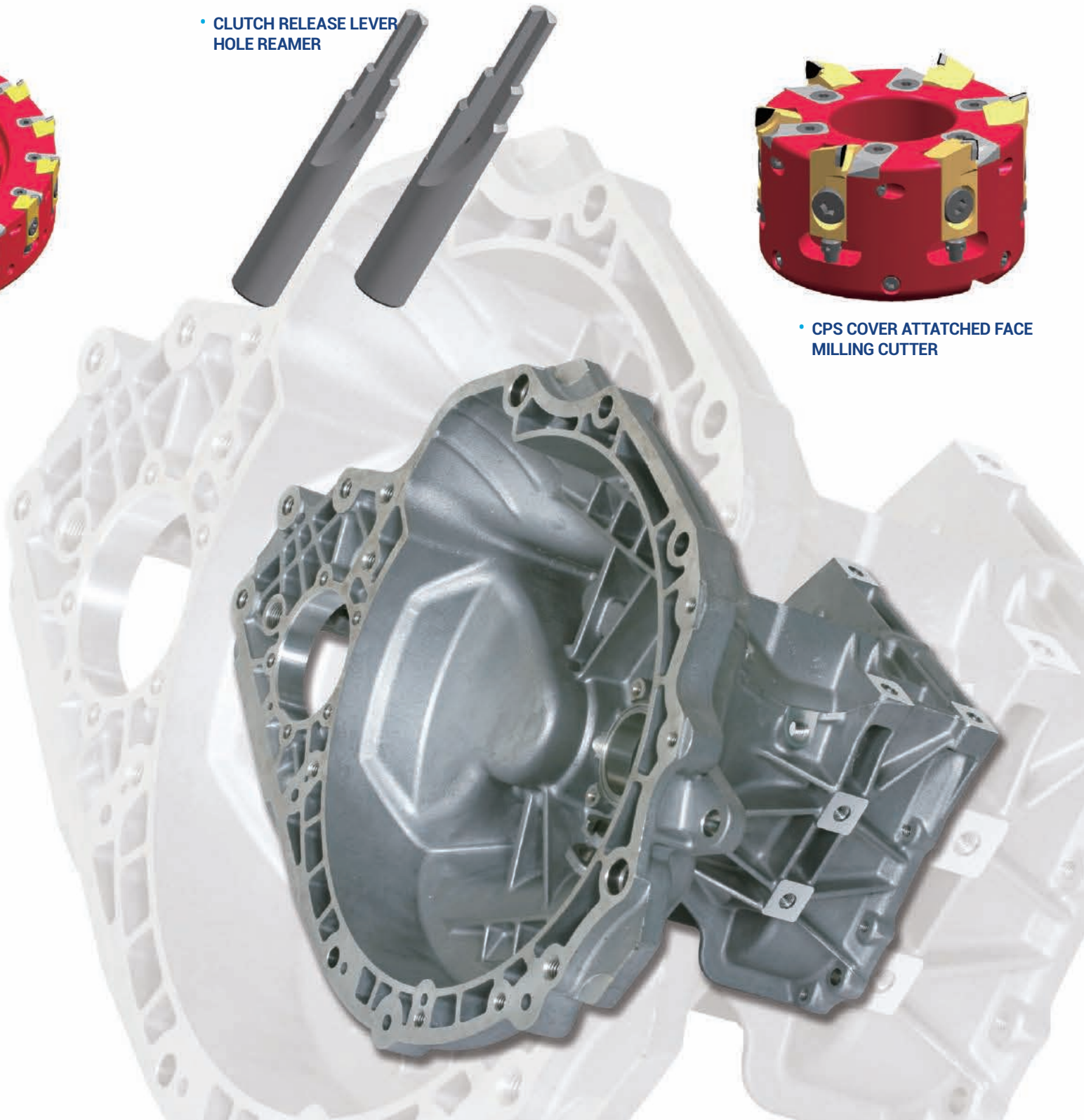
• CLUTCH RELEASE LEVER HOLE REAMER



• CPS COVER ATTACHED FACE MILLING CUTTER



• DIFT HOUSING & OIL SEAL HOLE BORING TOOL



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

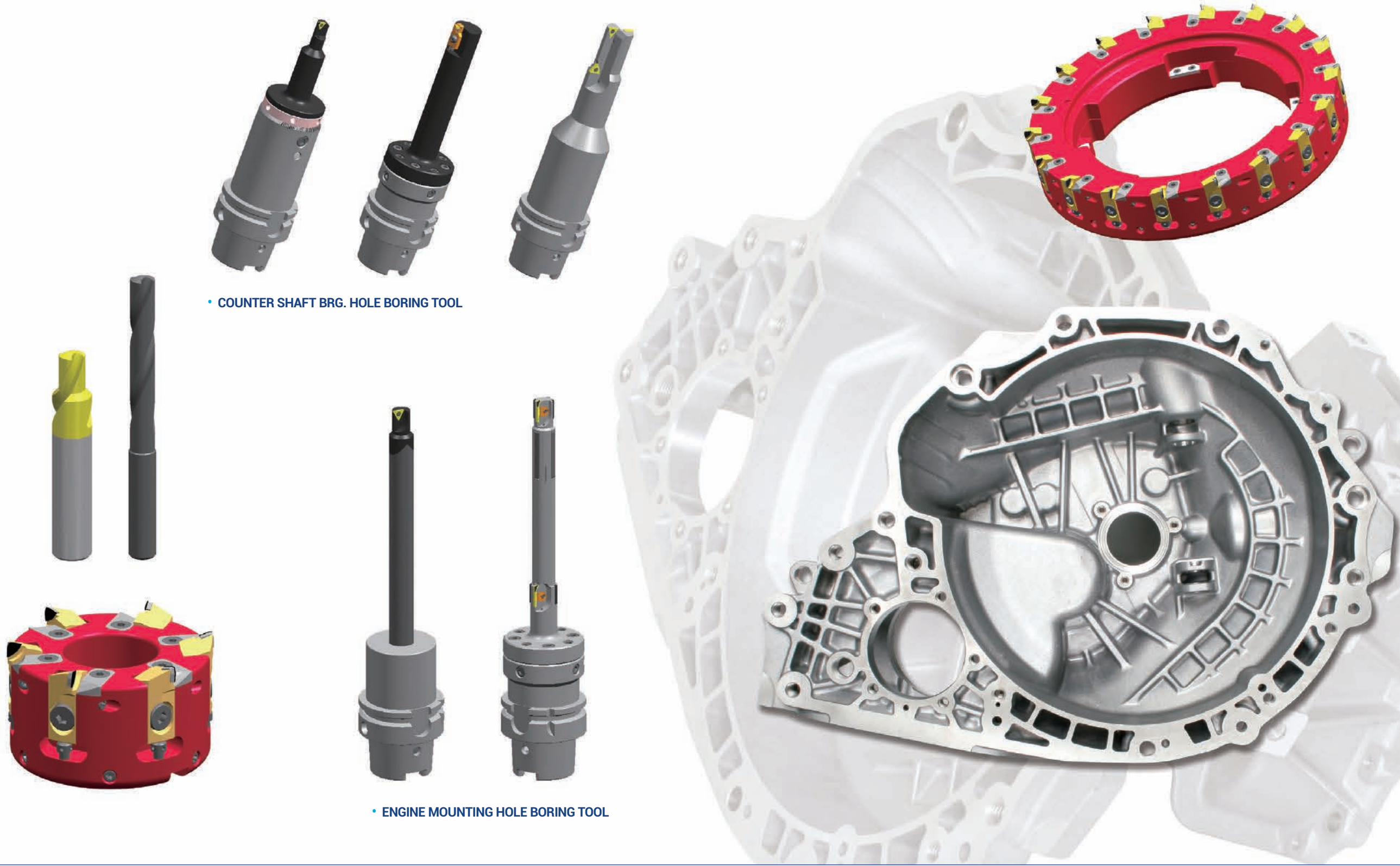
PCBN
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PCD

TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

T/MISSION CASE



• COUNTER SHAFT BRG. HOLE BORING TOOL

• ENGINE MOUNTING HOLE BORING TOOL

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

BRAKE HOUSING



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

BRAKE CARRIER



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

K N U C K L E



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

SPECIAL TOOLS

CONNECTING ROD



CERAMIC

CERMET

PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER



CERAMIC

CERMET

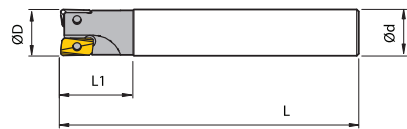
PCBN
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PCD

TOOL
HOLDER

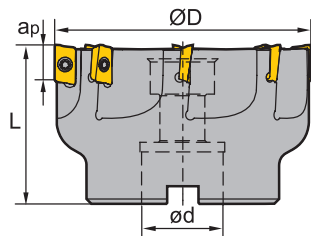
MILLING
CUTTER

ENDMILL CUTTER

ARE01

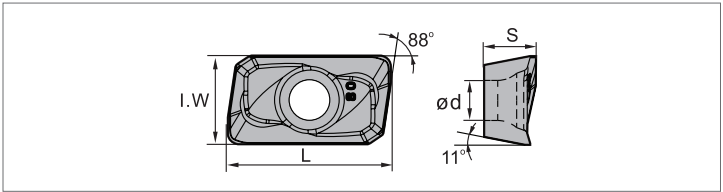


ARE02



Type		Dimensions (mm)				
		ØD	Ød	L ₁	L	
ARE01	ARE01-016-120-AP11-2F	16	16	25	120	2
	ARE01-016-180-AP11-2F	16	16	30	180	2
	ARE01-020-120-AP11-2F	20	20	30	120	2
	ARE01-020-180-AP11-2F	20	20	30	180	2
	ARE01-025-150-AP11-3F	25	25	35	150	3
	ARE01-025-200-AP11-3F	25	25	35	200	3
	ARE01-025-150-AP16-2F	25	25	35	150	2
	ARE01-025-200-AP16-2F	25	25	35	200	2
	ARE01-032-160-AP16-3F	32	32	40	160	3
	ARE01-032-200-AP16-3F	32	32	40	200	3
ARE02	ARE02-050-A22-AP16-5F	50	22	-	40	5
	ARE02-063-A22-AP16-6F	63	22	-	50	6

Diameter ØD	Insert	Screw	Wrench	
Ø16~Ø25	AP11	DTKA 02555	T-7	-
Ø25~Ø63	AP16	DTKA 04100	-	T-15

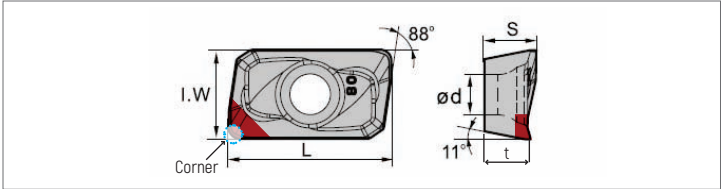


SPG200

- PVD Coating
- P20, M20

Insert shape	Type	Dimensions (mm)					Grade
		L	I.W	S	d	r	SPG200
	APMT1135PDR	11.25	6.2	3.5	2.8	0.8	
	APMT160408PDER	17.25	9.25	4.76	4.4	0.8	

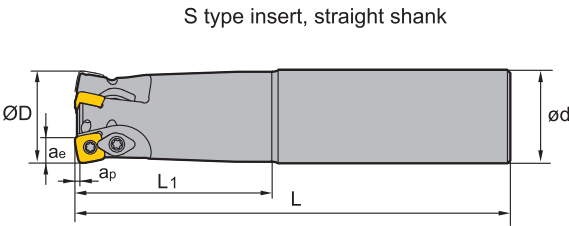
● Stock



Insert shape	Type	Dimensions (mm)					Grade
		L	I.W	S	d	r	SPD4000
	APMT1135PDR	11.25	6.2	3.5	2.8	0.8	
	APMT160408PDER	17.25	9.25	4.76	4.4	0.8	

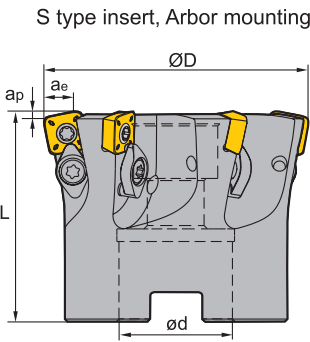
HIGH FEED CUTTER

HFC01

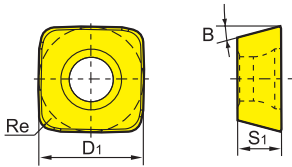


Type		Dimensions (mm)				
		ØD	Ød	L ₁	L	
HFC01	HFC01-33-200-SD12-2F	33	32	50	200	2
	HFC01-33-250-SD12-2F	33	32	50	250	2

HFC01



Type		Dimensions (mm)				
		ØD	Ød	L ₁	L	
HFC01	HFC01-50-A22-SD12-3F	50	22	-	50	3
	HFC01-63-A22-SD12-4F	63	22	-	50	4



SPG210

- PVD Coating
- P20, M20

Insert shape	Type	Dimensions (mm)				Grade
		B	Re	S ₁	D ₁	SPG210
	SDMT09T312-DM	15°	1.2	3.97	9.525	
	SDMT120412-DM	15°	2.0	4.76	12.7	

● Stock

Tool Type	Insert Screw	Clamp Screw	Clamp	Wrench		
HFC01 □□ -SD12 □□	DTKA 04100	DS 5003-1	DYR 08	T-15	T-20	

CERAMIC

CERMET

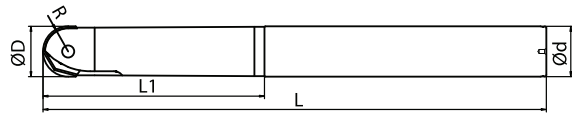
PCBN
/
PCD

TOOL
HOLDER

MILLING
CUTTER

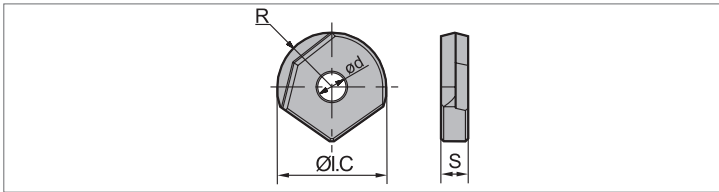
FINISH BALL CUTTER

FBC



Type		Dimensions (mm)				
		R	ØD	Ød	L ₁	L
FBC	FBC 012-130	6	12	12	50	130
	FBC 012-150	6	12	12	60	150
	FBC 016-150	8	16	16	60	150
	FBC 016-180	8	16	16	80	180
	FBC 020-180	10	20	20	75	180
	FBC 020-220	10	20	20	90	220
	FBC 025-200	12.5	25	25	90	200
	FBC 025-250	12.5	25	25	110	250
	FBC 030-200	15	30	30	90	200
	FBC 030-250	15	30	30	110	250
	FBC 030-300	15	30	30	125	300

Diameter	Screw	Wrench
Ø12	DBF 1210	T-15
Ø16	DBF 1611	T-15
Ø20	DBF 20165	T-20
Ø25	DBF 2520	T-25
Ø30	DBF 3025	L-5



SPG250

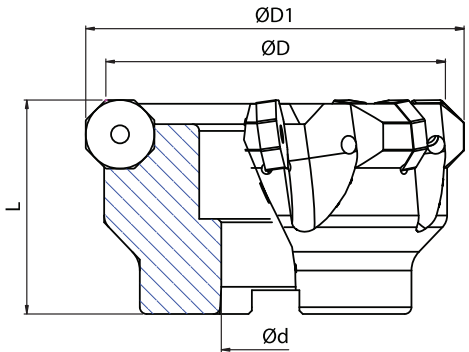
- PVD Coating
- P20, M20, K20

Insert shape	Type	Dimensions (mm)					Grade
		R	ØI.C	S	Ød	ØD	SPG250
	DFBI1203-M/F	6	12	3	4	Ø12	●
	DFBI1604-M/F	8	16	4	5	Ø16	●
	DFBI2005-M/F	10	20	5	5	Ø20	●
	DFBI2506-M/F	12.5	25	6	6	Ø25	●
	DFBI3007-M/F	15	30	7	8.25	Ø30	●

● Stock

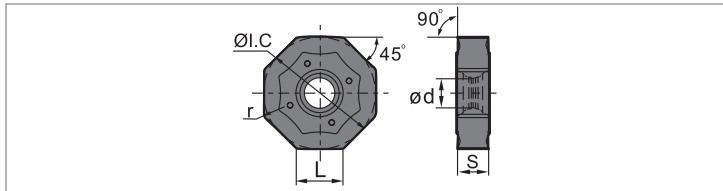
FACE MILL CUTTER

OMR07



Type		Dimensions (mm)				
		ØD	Ød	L ₁	L	
OMR07	OMR07-080-B27-ON08-06	80	92	27	50	6
	OMR07-100-B32-ON08-07	100	111	32	63	7
	OMR07-125-B40-ON08-08	125	138	40	63	8

Diameter ØD	Insert	Screw	Wrench
Ø63~Ø315	ONHU 08 □□□□ -PF/PM	DTKA512-60	T-20



SCK150

- CVD Coating
- K15

Insert shape	Type	Dimensions (mm)					Grade
		L	ØI.C	S	Ød	r	SCK150
	ONHU08T508-PF	8.37	20.2	5.77	5.3	0.83	
	ONHU08T508-PM	8.37	20.2	5.79	5.3	0.83	●

● Stock